

Shall Conservatism or Radicalism Rule?

Rumors are abroad with some apparent show of foundation that certain radical elements among railroad men and mine workers have united with other radicals in stirring up much of the Washington agitation, not to get to the truth, but by muck-raking to bring about such a lack of confidence in the Federal Government as to make these elements believe they can divide into rival factions the conservative elements of the country, and by this means bring about the capture of our Government by radicalism.

Apparently these radical elements feel that the undermining process or boring from within in both parties may make it possible for a combination of all dissatisfied elements to form a third party and throw the election of the next President into the House of Representatives, thus possibly putting a radical into the White House.

Whether these rumors are correct or not, certain inferences can safely be drawn. There is a tremendous effort being made by the alien element in the country to tear down the bars against immigration; the liquor interests in their widest ramifications will seek to break the influence of conservative elements in the Government; many radical workers, miners and other dissatisfied elements are determinedly aiming to control the Government. These various undermining influences can readily be united in a campaign having in view the destruction of both the Republican and Democratic parties, hoping thereby to ride into power and dominate the country.

This is not a fanciful picture. It is clearly to be seen that such influences are at work and that many radical men in Congress, perhaps not realizing the full danger of the situation, can be captured body and soul by these elements and made to believe that in serving them they would be performing a service to their country. The menace is too serious not to be watched with great care. It may demand a combination of all the country's conservative forces regardless of party ties so that the hands of the Federal Government may be strengthened. It may be necessary for the conservative element to throw partisanship to the winds and to present a united front against radicalism, for there can be no question that there is a more or less close combination between radical labor unionists, the liquor interests and millions of aliens to overthrow the existing order of things. They would bring about the nationalization of industry, open wide our gates to European hordes, tear down our prohibition laws and other restraining legislation and put into power in Washington puppets of these dangerous elements which are present in our national life to an extent that cannot be contemplated without alarm.

It may well be that all of us will have to decide between our country and our party. Not even the European War was so dangerous to the welfare and the future of the people of this country as is this situation today, and the need for genuine patriotism and statesmanship was never greater than now.



Another well-known manufacturer who has used our service

THE NAME of the Monroe Calculating Machine Company was recently added to the long list of prominent concerns which have availed themselves of the free service of our Lighting Service Department.

The letter shown above now takes its place along with those we have published before, from such well-known firms as: Cluett, Peabody & Co., The Shredded Wheat Company, the Statler Hotels, the Victor Talking Machine Company—and many others.

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A man will be sent to "measure" your lighting and make scientific recommendations

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Manufacturers Record

Exponent of America

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Vol. LXXXV No. 18)

BALTIMORE, MAY 1, 1924.

SINGLE COPIES, 20 CENTS. \$6.50 A YEAR.

Industrial Development the Only Road for Southern Agricultural Prosperity.

NUMBER of letters from various parts of the cotton growing regions to the MANUFACTURERS RECORD take a very pessimistic view of agricultural development in these sections unless we can bring into the South selected immigrants from the Scandinavian sections of Europe. While the incoming of a few farmers from Denmark and Holland and the surrounding regions would doubtless be desirable, we do not believe that the pessimism that is rampant is at all justified. Most of these letters take the ground that the white tenant and the negro farmer cannot raise cotton under boll weevil conditions. This in our opinion is an erroneous impression. It is true that some negro farmers will not be successful in raising cotton under these conditions, nor will some white farmers; but both classes can by the active work of the agricultural colleges and the agricultural departments of the South be trained into doing these things.

The capacity of negro farmers for better work has often been misjudged, just as has the capacity of white tenants been misjudged in the same way. Both classes have been bound to the wheel, the hub of which was our false system, encouraged by cotton factors and money lenders for the last fifty years, of raising cotton and discouraging the raising of foodstuffs. It was profitable to the supply merchants and bankers in the towns and cities to sell the farmers their feedstuffs and foodstuffs, and to sell them at an exorbitant price when had on credit. They, therefore, pursued the policy for many years of refusing to lend money on practically anything but cotton, and sometimes tobacco, making no effort to encourage the small farmer to diversify and intensify his activities.

Too much land is under cultivation in the South. One-half of it intensively fertilized and cultivated would produce larger crops at a greater profit. But even this would not solve the agricultural problem in the South.

Primarily from top to bottom the agricultural problem of the South is a matter of a larger market for diversified products. This market can only be fully developed by the creation of industrial interests which furnish employment to laborers and create cities in which every variety of farm product can find a market.

A distressing story was told a few days ago by the wife of a Georgia farmer who was traveling through the country selling at ridiculously small prices bed spreads which had been made by the farm people of her section. Cotton having proven unprofitable, the farmer turned his attention to raising foodstuffs. His potatoes rotted because he could find no local market in which to sell them. One crop after another failed him, not in productivity, but in the ability to find a market, and so the wife was out on a campaign carrying her goods with her, selling from house to house in different cities

in Georgia and Florida hand-worked bed spreads and other things made by these North Georgia mountain women.

Except where there is a local market which will absorb a large part of diversified products we can preach and preach agricultural diversity in vain. This, of course, does not mean that every farmer should not raise his own foodstuffs. That goes without saying. But when he has raised enough for his family and his livestock to eat, he needs something to sell for the cash required, and if he cannot sell his chickens and his eggs and his vegetables and his fruits in some nearby market, his chances of success are greatly limited.

Fundamentally, therefore, the thing that is the matter with Southern agriculture outside of the evil wrought by deflation, is the need of industrial development which will create a consuming population sufficiently large to take everything that the farmers of the South can produce. This is the problem which Southern business men and politicians must face. With agriculture alone the South can never prosper, nor can any other section except for a limited period. Abundant cotton crops would not save the situation for cotton growing has been the bane of the South.

If the same amount of discussion that is being given to bringing in European farmers were given to ceaseless activity for the development of industrial interests, greater results would be accomplished. This, however, would mean that manufacturers who favor a tariff must cease to be classed as "robber barons," for nobody wants to settle in a country in which he is referred to as a "robber baron" merely because on economic grounds he believes in protection of the industries of this country. This would also mean that the newspapers which herald the incoming of a new industry or a new investor, must recognize the right of these new people as American citizens to express their views on economic questions without fear of being denounced as "robber barons," or in other opprobrious terms.

In some parts of the South, for instance, a man who had the courage to vote his convictions and vote for a Republican presidential candidate on economic grounds, has been criticized as though he had committed some crime, while thousands of business men thoroughly believing in a protective tariff and in other things opposed by the Democratic party, have prayed for the election of the Republican candidate while voting the Democratic ticket or while not voting at all. That simply means mental slavery, and it is time for the South to break away from it.

It is true that the stupid upholding of the negro question by the Republican party has solidified the South on that question, but the negro bugaboo should no longer be regarded as a purely Southern question. It is going to be more acute in many places in the North and West than it is in the South.

Every man should regard all economic problems, whether

they relate to tariff or finance, from a purely non-partisan standpoint without regard to whether they are favored or opposed by this or that party. Only when this condition comes about can the South expect to reap a full harvest of prosperity from its abounding resources. It needs manufacturing enterprises more than any other part of the country. It is more backward in most lines of manufacturing than the North or the West. It has more resources on which to build than any other section, but it has accomplished less in real, achievement. Alabama and Georgia, for instance, are regarded as important industrial states, and yet with all their industrial progress neither of them has as much manufacturing business, either measured by the amount of capital invested or the value of the products, as the city of Baltimore.

Until the South thoroughly develops its industrial interests and increases the number of food consumers, reversing the conditions which now exist where the number of producers so largely exceeds the number of consumers, it cannot possibly have that well-rounded prosperity of the farmers which is so much needed. Today the Southern farmer who goes heavily into diversified products often finds no market for the stuff which he raises because the local demand is less than the supply.

There are some things in which diversified farming can be carried on to advantage, and these should be encouraged as much as possible, but primarily the straight road that leads to farm prosperity is along the line of industrial development.

Southern consumers must also determine to buy as largely as possible from local producers of foodstuffs. Too many Southern families are like the average hotel manager, who buys canned goods in place of an abundant supply of fresh vegetables that may be in his neighborhood merely because it is a little easier for the cook to handle canned goods than fresh vegetables from neighboring farms. Too many Southern families are content to buy the food products of other sections from the stores merely because it is a little easier to do this than it is to encourage farmers to raise foodstuffs by buying the local farm products.

The home market for diversified farm products can be greatly enlarged even under present conditions, for the South is buying hundreds of millions of dollars worth of Western products. But to do this means co-operative work on the part of the town and city and village people of the South, determined as far as possible, regardless of some little inconvenience, to assist the local farmers in finding markets for their products. With that spirit developed among the consumers already in the South, with a lessening of the criticisms against those who may regard a protective tariff as essential to the best interests of this section and of the country, and to the broadening of thought on all economic questions with a readiness to study these problems from a non-partisan standpoint, and with a concentration of energy upon industrial development, we can then look forward to a far more rapid growth of the South than we have had in the past. And this means especially a far greater prosperity for the farmers.

A REMARKABLE SCHEME OF ADVERTISING BY THE SOUTHERN RAILWAY.

I^N a recent statement issued by the Southern Railway Company the fact is pointed out that during the past winter it has been carrying advertising of its line and of the South in every daily and weekly newspaper along its entire \$300 miles of road. Some of the facts given in regard to the road and its operations are of interest:

"The investment in its properties is now more than \$710,000,000, of which \$285,000,000 has been expended in the past two decades,"

"Of the \$104,000,000 expended for additions and betterments

(in the past ten years) 21,000,000 only was obtained by the sale of securities. The other 83,000,000 was taken from earnings."

"Since the organization of the company in 1894, the rotal amount of income invested in the properties has been \$124,500,000."

"The Southern Railway System spent last year in the South \$20,000,000 more than it received from the South."

"It deposits in Southern Banks an average of \$150,500 each banking hour."

"In the past two decades we have increased our productivecapacity as follows: Average pulling power of locomotives has increased 54 per cent; total pulling power of all locomotives has increased 182 per cent; total capacity of freight carshas increased 90 per cent; trainload has increased 122 per cent."

"At the service of each employe is an average investment of \$13,000 in railroad property."

"In the past five years Southern Railway System has paid its employes wages amounting to \$442,000,000, an average of \$230,000 a day."

"Our expenditures in one year for new locomotives and cars aggregated \$30,000,000—14,275 freight cars, 105 passenger cars, 100 locomotives."

"The Southern Railway System paid last year \$7,663,000 in taxes. The earnings from 2000 miles of our lines were entirely devoted to paying taxes."

entirely devoted to paying taxes."

"In only five of the past 17 years have we paid the full 5 per cent dividend on Southern Railway preferred stock. The average annual payment to the shareholders has been only 2-1/3 per cent. No dividends have been paid on the \$120,000,000 common stock. But in this long period of lean returns for the 16,000 owners, many millions of dollars of earnings have been expended for additions, betterments and improvements. The strength of the Southern Railway System today, as an efficient public servant, is the result of the courageous carrying-out of this program."

THE DISCORDANT HARP OF DEMAGOGISM.

In A Washington dispatch to the New York Herald-Tribune, Ben Marsh of the Farmers' National Council is quoted as telling the Senate Interstate Commerce Committee that "even if the Interstate Commerce Commission wanted to serve the public, the United States Supreme Court probably would block them on the valuation of the roads, as that court has been packed for that express purpose by the addition of Chief Justice Taft and Pierce Butler." Mr. Marsh advocates Government ownership of the railroads.

While Mr. Marsh and every citizen is entitled to his opinions and the right to express them, if not treasonable or otherwise improper, his views might be interpreted by some persons as indicating either extreme ignorance or intent to undermine the confidence of the people on the honesty of their Government and the courts. No man of average information believes for a moment that any President of the United States has tried to "pack" the Supreme Court on any line whatever. Every man of average information well knows that Government ownership or management of the railroads would impose a burden of taxation on the people too heavy to be borne. This was demonstrated beyond question by the experiment conducted through a Federal director of railroads, and may be corroborated by evidence from foreign countries.

"The courts are packed"—one of the dozen reckless and untrue assertions made by men seeking particular ends. "The toiling masses," "The downtrodden working man," "Oppressive capital," "The prohibition minority"—these, too, are favorite phrases designed to create dissatisfaction and unrest among various elements. The harp of demagogism has a hundred strings, and no one who plays it either hopes or desires to bring forth harmony. It is attuned to discord, and this discord is broadcast through the land.

In a day or so one possibly may read that the Supreme Court is "packed" in favor of prohibition, or is "packed" in the interest of chewing gum masticators, or is "packed" to protect reckless automobile drivers, or is "packed" for any other ridiculous purpose.

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"The South's Development": A Glimpse of the Past, the Facts of the Present, a Forecast of the Future.

[Special to Jacksonville Times-Union.]

Daytona, April 25.

C OMMEMORATING the fiftieth successive year of effective journalistic service in behalf of the South by Richard H. Edmonds, Editor of the Manufacturers Record, Baltimore, and permanent winter resident of Daytona, and in appreciation of Mr. Edmonds' voluntary services in behalf of the state at large, the Seabreeze-Daytona Beach Association, composed of capitalist—developers, at a meeting Thursday at the Clarendon hotel, Seabreeze, unanimously adopted the following resolutions in which endorsement was given to a special edition of the Manufacturers Record to be issued in behalf of the editor's half century of work:

"Whereas, Richard H. Edmonds, Editor of the Manufacturers Record and permanent winter resident of Daytona, is now celebrating the fiftieth consecutive year of his increasingly effective journalistic service in behalf of the South; and

"Whereas, Mr. Edmonds, in appreciation of the fact that residence in the Halifax country and frequent visits to other sections of Florida have on two occasions restored his broken health and made it possible for him to continue in laborious work in winter, has ceaselessly advertised the beauties and advantages of the entire state, not only in the Manufacturers Record, but in other publications as well; and

"Whereas, The Manufacturers Record, in commemoration of the half-century of service of its editor, proposes to issue, some time during the present year, a special edition devoted to the South's further development; and,

"Whereas, Contributions to this special edition will prove a state and community-benefiting investment, as well as an unsought honor to Mr. Edmonds; therefore, be it

"Resolved, That the Seabreeze-Daytona Beach Association, in session at the Clarendon Hotel, Seabreeze, April 24, 1924, heartily endorse the plan for issuing this special edition and ask that other trade and civic bodies throughout Florida folllow the example that this organization takes pleasure in setting.

"T. J. M'REYNOLDS, SR., President.
"T. F. Walter, Vice-President.
"Franklin N. Wood, Secretary."

The foregoing dispatch from Daytona to the Times Union of Jacksonville, necessitates many weeks in advance of what we had intended, the announcement of a proposed special issue entitled

"THE SOUTH'S DEVELOPMENT"

A GLIMPSE OF THE PAST

THE FACTS OF THE PRESENT

A FORECAST OF THE FUTURE

It has not been our intention to make any public reference to this proposed edition for the present, although the plans for it have been maturing for several months. We had hoped to have the work well under way before public mention was made of the fact, but since the Seabreeze-Daytona Beach Association has passed these wholly voluntary resolutions and had them printed in Florida papers, it is appropriate that a full explanation should be made of the matter.

Not since 1913 has the MANUFACTURERS RECORD published a special edition. At that time we issued "The South the Nation's Greatest Asset," a publication which more comprehensively covered the resources and development of the South than had ever been issued. But so rapid has been the growth of the South since then, so widespread is the interest in its resources and progress, that it has seemed especially important that another publication of a similar character

should be undertaken. The result, as stated, will be "THE SOUTH'S DEVELOPMENT." Into it will be compressed the outstanding facts regarding the South of olden days, the South of today, and a forecast of what the coming years may bring to this section.

The Manufacturers Record has been in existence since February, 1882. It was an outgrowth of an old commercial paper of high standing, widely known throughout the nation at that time as an authority on commercial and financial affairs. The editor of the Manufacturers Record entered the office of that paper in 1874, or just fifty years ago this summer, starting at the bottom of the ladder as an office boy. Later he was bookkeeper, then reporter, then compiler of most of its statistical data, and afterwards assistant editor; and in 1882 succeeded in inducing the owner of the paper to establish the Manufacturers Record, which at the end of six months he purchased on long time credit.

The first issue of this paper stated that it had been established for the purpose of aiding in the industrial development of the South. Ever since it has sought to cover every phase of Southern development from Maryland to Texas, including Oklahoma and Missouri. To that task it has bent every energy of its entire staff. What it has accomplished in this work we prefer to leave to our readers to say.

There is one point, however, which it may be justified in mentioning. Though by the South, and of the South, and for the South, it has looked upon Southern development as not only of essential importance to the welfare of this section but of equal importance to the rounding out of national life.

It has sought to be an upbuilder of the nation through the upbuilding of the South.

It has ceaselessly aimed to develop a broad spirit of nationalism without regard to sectionalism on the basis that the time had come when the welfare of this country demanded the putting of patriotism before partisanship, and realizing that the development of every section is helpful to every other section. It has rejoiced in the growth of the Pacific Coast as adding to the prosperity and the Americanism of the whole nation. It has commended unceasingly the virility of New England in the building of its great business and industrial activities through the power of energy which has so enriched that section despite its lack of natural advantages. It has seen in the upbuilding of the East and the West a strengthening of national life, and it has sought unceasingly as the exponent and advocate of the South to awaken this section to its own limitless advantages, and to draw capital, whether that capital be in the shape of money or brains, or brawn, into the opportunities which the rich resources of the South offer.

The resolution passed by the Seabreeze-Daytona Beach Association, which is composed of men of affairs who are taking an active part in the upbuilding of that section, is so wholly unexpected that we can only express our appreciation of the kindly way in which these resolutions are worded, and as stated, the adoption and the publication of these

resolutions make necessary this explanation in advance of the proposed time of announcement of the special edition.

In one sense this proposed publication will not be a special edition. It will be a publication separate and distinct from the regular issue of the Manufacturers Record. The reading matter and the advertisements will be distinct, and only for the want of a better term has it been called a special edition. It is rather a special publication. Some months will be required to complete the work and to put into shape the vast amount of information about the South which we trust will make that publication invaluable to every one who is at all interested in the development of this section, not only because of their direct interest in the South, but because of their interest in the broadest development of every section of this nation, for the development of the South means the enrichment of the nation; its enrichment not only in material things, but in the spirit of Americanism, of nationalism.

Here is the most unmixed Anglo-Saxonism to be found in the world. Here is less of the spirit of socialistic and communistic and Bolshevistic agitation than exists elsewhere in this country or in Europe. It is, therefore, a matter of vital importance to every lover of this country that the section which holds this Anglo-Saxonism in such large measure shall be developed for the good of the nation and as a safeguard against the anarchistic spirit, which is abroad throughout this land and throughout Europe.

THE POWER FOR EVIL OF UNWISE LEGISLA-TION AGAINST BUSINESS.

Wisconsin Wake Up!" in the course of which it is said:

"The story of two Wisconsin industries now in the public eye ought to strike home to every citizen of Wisconsin.

"The Palmolive Company of Milwaukee and the Nash Motors Company of Kenosha are two of the largest manufacturing industries located in our State. They have become national institutions with over 95 per cent of their products sold outside of Wisconsin. They bring millions of dollars into our borders to be distributed for wages, materials, transportation, construction, which in turn mean purchase of food from farmers, clothing, shelter and fuel from retailers and services from professional men.

"The Palmolive Company from small beginnings has attained a world market which justifies a \$4,000,000 annual appropriation for advertising its products. It has established branch factories in other States and built up its home organization in Milwaukee as a Wisconsin corporation. Before the last session of the Legislature rumor was persistent that extensive additions were to be made to the home factory. What has happened?

"The general offices have been moved from the State.

"The Wisconsin corporation has become a branch factory.

"The men who with their abilities and capital were in

large measure responsible for the success attained are no longer residents of Wisconsin.

"Wisconsin loses the right to assess an income tax against a major portion of its earnings.

"Wisconsin loses the right to assess an income tax against the earnings of the non-resident officers while living, and substantial inheritance taxes when dead.

"Most of all, Wisconsin loses the initiative and voluntary support of public enterprises by able men who can help to make our State prosper.

"The Nash Motors Company of Kenosha is the reorganization of a corporation of average proportions by Mr. Nash and the officers of the new company who came into this State just a few years ago. By their genius and resources they have developed a remarkably successful business, the benefits of which have extended to all parts of our State.

"At present they are among the heaviest taxpayers in Wisconsin. Their tax burden is several times what it would have been if located in Michigan, the home of their principal competitors.

"These men now resist the imposition of added burdens to industry in Wisconsin, calling attention to our present unfavorable laws compared with other States.

"For their pains, they are branded by men in political position as unpatriotic and tax dodgers.

"Mr. Nash and his business friends do not have to stay in Wisconsin. It would be mighty easy for them to follow the footsteps of Johns-Manville, Simmons and Palmolive and make their Wisconsin plants branch factories.

"Do we want Wisconsin industries to become branch factories owned and operated by non-resident stockholders? That's just the way we are headed. Let's turn around. Wisconsin, Wake Up!"

MANY NEW USES FOR COTTON YET TO BE DEVELOPED.

PREDICTION of further curtailment in the production of cotton goods, with consequent shrinkage in the prices of the raw staple, well may turn the attention of cotton experts to the development of a much wider range of use for cotton in one form or another. The articles manufactured in whole or in part of cotton and the many other lines in which it is utilized are numerous, but in these days of inventive genius and of scientific research and experiment there can be no question that the field of consumption can be tremendously enlarged.

In every great industry laboratories are maintained by private business concerns, in which highly specialized experts devote their days to devising new uses for commodities and discovering by-products and methods for their extraction or manufacture. For many months a large group of such specialists may labor without one discovery of value; then, one may hit upon a new idea which will repay a thousandfold the expense of the maintenance of the entire corps.

No doubt there are such men now engaged in the study of cotton from every angle, but the field is so wide and the importance of the work is so great that this force should be increased to an army. There are other uses for cotton than the manufacture of lingerie and hosiery and garments—in which, indeed, it has been largely superseded by silk and artificial silk; there are other uses for cotton than the manufacture of munitions of war, or of automobile tires; there already are a thousand and one uses for cotton—but, undoubtedly there also are a thousand and one uses for cotton which have not yet been discovered or suspected.

Which thought the MANUFACTURERS RECORD bopes will germinate and bear fruit in the cotton fields and factories,

STANDARDIZATION OF EDUCATION AND BUSINESS.

A READER of the MANUFACTURERS RECORD in a letter commenting on two recent editorials discussing standardization and federal control of education writes:

"I have been very much interested in some of your recent editorials, and have intended writing you about them. For instance, your fight against a Bureau of Education, and your recent editorial against too much standardization.

"In some things, and to a certain extent, standardization is a very fine thing. The Creator standardized mankind to the extent of giving every normal one of us four limbs, two eyes, two ears, a sufficiently standardized intelligence to enable us to converse intelligently (more or less) and various other points of similarity. But his standardization of humanity ceases at a certain point, and one of the best and most vivid measures of the immense advance of man over all the lower animal kingdom is the immense dissimilarity. the immense variety, of human nature. No two men exactly alike have yet been found. But as we go on down the scale of the animal kingdom we find an ever increasing degree of standardization, until when we reach the fish, we find the individual so highly standardized that it is almost impossible to tell the difference between them. The fish of the same species react in almost the same manner to the same stimulus, their time is spent in exactly the same pursuits, and their attainments are all about the same. The question is frequently raised, as to what the effect upon mankind will be of the standardization of industry, of which the classical example is the Ford plant, where a man spends his days in repeating endlessly, thousands and thousands of times, the same slight, thoughtless mechanical action, while his brain lies dormant or is converted into a 'devil's workshop.' The man who first said, 'You poor fish,' must have been more of a thinker than most of his disciples in the use of the expression.

"And yet I am ready to believe, that, under certain ideal conditions, standardization of our national education might be a very fine thing. I don't assert that it would be; I don't even go so far as to say I believe it would be. I only say that I am open-minded enough to believe that under certain ideal conditions it might be a good thing, and I will define those conditions.

"First, the word 'education' has a Latin derivation, being made up of two words e or ex, and duco. Used as a prefix the word e or ex means, among other things, out of, from, or forth. The verb duco means to pull or to draw. Combined in the verb educo, they mean to draw forth, to draw out. That is what our word education originally signified—a drawing forth; and of course, that which was drawn forth was the latent capacity of the student. In other words, to educate really means to develop the capacity and habit of thinking. Now, if our schools could be standardized on the lofty plane of teaching their students to think for themselves, then we would be standardizing a method of producing a greater degree of originality, and I am ready to believe that if this could be carried out it would be a very fine thing.

"But unfortunately we do not educate. Our schools and our colleges are cramming institutions, designed and tuned up to a remarkably high degree of efficiency for cramming not always even facts—but figures and frequently gross misstatements of facts, into the heads of their students. It must be perfectly evident to any thinking person that to turn over to any single bureau the power to dictate what statements and what system of economic creed shall be crammed into the heads of the students of the nation would be to put into the hands of that bureau a power so great,

for evil equally as well as for good, that no influence or group of influences in the country could hope to combat it. It would be an experiment fraught with the gravest national peril. Powerful predatory interests would immediately fasten upon that bureau, pervert it to their uses by means they have recently shown themselves to understand only too well, and train up the youth of the land as they believed best for their own interests, regardless of whether those interests might or might not coincide with the welfare of the nation or of humanity.

"That this assertion is only too true is irrefutably shown by the disclosures that have recently been made and are still being made in Washington. And that the country would probably never throw off the yoke, once it had bowed the neck to it, is likewise strongly indicated by the supineness of the nation in the face of these disclosures. But the present power of the men, already sufficient to unsettle our national affairs by the lever of their wealth, is as nothing compared with what it would be if thousands of high-minded, honorable but uninformed and shortsighted people combine to deliberately put into their hands an instrument by which they could mold the belief of the rising generation and teach it to revere all that they are and all that they stand for. If they had deliberately conspired to devise a means by which they could perpetuate the capitalistic control of this Government of ours, they could not possibly have found a more effective instrument than has been designed for them.

"The insidious peril of this measure to bring under one central Federal bureau the direction of the education of this nation is the gravest peril these United States have ever faced."

The Times Union, Jacksonville, Fla., in commenting on a recent editorial in this paper on the fad of standardization said:

"When the world was created, standardizing wasn't as much of a fad as it is at the present time. Had it been, uniformity would have been universal. All the planets would have been of the same size and all would move in the same direction, at the same rate of speed; all the days and nights would be of equal length of time, and the weather would be unvarying. All the flowers, under the system of standardization, would be of the same color and always in bloom. The trees would be exactly alike. The earth's surface would be perfectly flat, if standard-fixers decided. Babies, of the species human, would all be the same in appearance, none more beautiful than the other, and their mothers relieved of jealousy. With everything standardized, what a mess there would be—at least, no enjoyment of contrasts, of varying conditions and environments.

"In these days there is a constant effort toward standardization, until Editor Edmonds of the Manufacturers Record, seeing the "Standardizing of the Nation to Death," is moved to biting sarcasm, as when, in the latest issue of his journal, he says:

"'On with the merry dance! Let us standardize everything! Standardize the babies that are to be born; standardize the methods that every mother must use in feeding and training the babies; standardize the education of the schools and the teachers, and the scholars; standardize the mentality and the physical development of the boys and girls, on up to manhood and womanhood; standardize them on a basis that the lowest mentality shall be the standard by which men and women are to be measured; and then having standardized them to this degree, they are to be fed standardized newspapers with standardized mentality in the editorial and news departments, and in the ingenuity and initiative work and design down to the mediocre level of the lowest.'

"Having thus relieved his mind, the Record's editor invites to a view of what is threatened by standardization of everything, saying:

"'Oh, what a nation we will have! What billions of dollars will be saved! How the standardized child and student

will live in a standardized house, furnished with standardized carpets and rugs and furniture, sleep in a standardized bed, eat at a standardized table of standardized food, study in standardized books, and read in his daily or weekly papers and magazines the standardized mediocrity of the day, instead of having the blessing of the diversity of thought, diversity of mind, diversity of physical activity, and that competition of brain and brawn with which the Almighty endowed mankind for creative work."

"This picture is not overdrawn. Within reason, there is merit in standardization. But it has become a fad, and fads usually are not suggested or controlled by reason. This prevailing fad is showing itself most dangerously in Washington; politicians and political snake-doctors have adopted it. instigated, mainly, by professional faddists and salary-grabbing reformers, so-called. It needs to be curbed, unless the people want to be told just what to do and how to do it, throwing overboard whatever of intelligence they possess, and, also, whatever of rights they have assumed to be theirs. The fad of standardization is becoming almost as much of a nuisance as was, until recently, that inane remark with reference to bananas."

EXTENDING ACTIVITIES OF LABOR BANKS.

FURTHER incursion by organized labor into the realm of practical finance is noted in a movement of the Amalgamated Bank of New York to assist consumers' co-operative associations in buying necessaries for workers at low prices, this bank being an outgrowth of the Amalgamated Clothing Workers' Union. The first step in this policy, it is announced, will be participation by the bank in the purchase of 20,000 tons of coal for a workers' cooperative organization.

In general principle, the financing by a bank of a purchasing movement may be sound banking business; in specific cases, the soundness must be measured by the nature of the transaction involved and the stability of those to whom a bank may extend its support. In the case here cited, the coal may provide ample collateral for the money advanced by the bank, and the terms of the lien may be adequate for the protection of the bank's stockholders and depositors. No doubt they are, or the State Banking Department of New York hardly would have sanctioned the transaction.

But, may not a tendency develop to overstep the bounds of banking safety in entering into partnership with so-called cooperative associations? May not the sympathy of an organized labor bank for a labor cooperative association subconsciously weaken the protective determination of the labor bank's official? State banking departments must be on the

Most significant in this financing of a purchase "to buy necessaries for workers at low prices" is the indication that the inexorable law of supply and demand still is lost in the maze of methods artificially to maintain or raise or reduce prices. Through the vicious system of "price-fixing" evolved by the National Government in war times, the law of supply and demand was submerged till lost to sight and almost to recollection. Yet it remains the one and only corrective for unfair prices of every nature for any commodity under the sun. One recalls, only a few years ago, that the price of eggs in Baltimore soared beyond the height of reason or excuse, and in two days the housewives of the city brought it down to a fair standard by the simple expedient of refraining from the purchase of eggs. One fears that in these days the tendency would have been to seek relief through artificial financing, or appeal to national, State or municipal authorities to intervene on the ground of "public opinion," rather than of economic or other law.

If the calendar can be stretched about 50 per cent, to accommodate all the "weeks" dedicated to various movements, a "Law of Supply and Demand Week" might be of tremendous benefit to the nation as a whole.

ASKS PROTECTION FOR CITIZENS AGAINST RECKLESS CHARGES BY OFFICIALS.

E MPHATIC contradiction of Huston Thompson, chairman of the Federal Trade Commission, in testifying before the Senate Daugherty investigating committee, that the Southern Pine Association had sought delay in the trial of a Federal case against it, is expressed by John H. Kirby, former president of the Association and one of the most substantial and most highly respected citizens of the South. In part, Mr. Kirby says:

"Mr. Thompson's statement that I was president of the Southern Pine Association at the time the Department of Justice, at the request of the Federal Trade Commission, filed suit against the Southern Fine under the Sherman anti-trust law in the early part of 1921 is not a fact. I did not become president until more than a year after the institution of this suit. I am not president now.

"Instead of counsel being employed for the purpose of delaying the trial of this cause, as intimated by Mr. Thompson and by Senator Wheeler, the truth is that counsel was employed to urge a speedy trial of the case. If the Southern Pine Association was conducting any unlawful activity within the view of the courts, it was desired to immediately abandon such activity; and if they were within their legal rights in the performance of the service that they were then rendering. they desired to persevere in that service for the promotion of the public welfare as well as for the promotion of sound industrial policy.

"Constantly and continuously ever since the institution of this suit, which we regarded as wholly malicious, we have been urging the Department of Justice to give us a hearing in the courts. I, personally, have never had any interview with Mr. Daugherty on the subject or any communication with him. But during the period when I was president of the Southern Pine Association I did have an interview with Assistant Attorney-General Fowler, who, together with another assistant attorney-general, Mr. Stanley Thompson, had this litigation in charge, to urge them to give us a trial. This interview was about four months ago.

"At that interview, as on the occasion of all previous efforts by our representatives and our counsel to get the case to trial. these gentlemen, representing the Department of Justice, said that their tasks were so heavy and the public business in their hands so voluminous that it was a physical impossibility for them to have accommodated us at any time in the past with a trial of this cause. Being urged to do so they did consent that during this summer they would enter into a trial of the case with us.

"I wish to repeat that the insinuation that any influence was sought to be brought upon Attorney-General Daugherty. or the Department of Justice, to delay the hearing of this case is a pure fabrication, the truth being that at all times we have urged the Department of Justice to 'come on' to the end that the issues involved might be judicially determined."

Mr. Kirby also denied emphatically that the Southern Pine organization had violated any law.

In protest against the accusations by Mr. Thompson, also, Mr. Kirby strongly urges the enactment of a law to protect private citizens and business interests against any and all representatives of any Government bureau "who may go before such a tribunal as a committee of the United States Senate, with undefined powers, and besmirch the reputations of citizens, cast odium upon business organizations and slander without restraint the industrial processes upon which the people must rely to sustain modern civilization."

Such a law, adds Mr. Kirby, "would go a long way toward protecting the public against tin-horn, one-gallussed officials of diminutive mind or malevolent spirit."

WESTERN WHEAT GROWERS SAVED BY and the whole backed by good honest toil, without which DIVERSIFICATION OF CROPS—A LESSON TO SOUTHERN COTTON FARMERS.

S HIFTS from wheat production into dairying, poultry, swine, corn, alfalfa and leguminous crops in general have enabled many farmers in the Middle West and Northwestern States to cut their losses and get their farming operations on a profitable basis in the last few years. Many cases of successful readjustment in farm production plans are reported to the Agricultural Department. These reports from county agents tell of cuts in wheat acreage, replacement of beef cattle herds by dairy herds, progress in poultry production, development of definite crop rotation, and expansion in the production of flax, soy beans, sweet clover, sugar beets, garden truck and hay.

One typical instance is that of three brothers who were formerly large grain growers in Minnesota. About four years ago they began to have doubts about the future of grain growing. Accordingly they laid the foundation for a good dairy herd, planted part of their farm in corn, alfalfa, clover and some sugar beets, and erected two silos, going into debt for most of the expense. Last year they sold \$1700 worth of breeding stock and \$3800 worth of milk to a local cooperative cheese factory which they helped to build. They have adopted a four-year rotation on their farm and have restored their land so that it is again profitable in small grain production.

Similar cases are reported from Montana, Nebraska, South Dakota and Kansas. A Kansas farmer turned last year from almost straight wheat farming and made poultry an important side line. On an investment of \$150 in 1000 baby chicks, it is said he made a profit of \$287. Now he has added four head of pure-bred Jerseys to his dairy herd. Another man who formerly grew wheat exclusively and often asked "What shall I do with the other nine months?" found the answer in diversified farming. He turned to cattle, swine and poultry production, and introduced a definite crop rotation. This change enabled him to distribute his work throughout the year, and saved him from the bad effects of the wheat depression.

There have been reported instances where settlers,—in plain English from pure laziness,—said they came West to grow wheat which did not require so much work to produce and they did not intend to labor from early morning to late evening as "nurse" to a lot of cows. Before they would go into the dairy or poultry business they preferred to go back to their trade, where at least they could get more money for their labor. To preach diversification to people of this sort is futile. But to the farmer who is interested in farming, who loves the freedom and the contact with the soil, and who thrills to the thought of making two blades of grass grow where one grew before, diversification is the way to greater development. Take, for instance, another farmer who has maintained his farm on a paying basis since 1920 by practically eliminating wheat except as a filler in his plan of crop rotation, and keeping Holstein cows and growing sweet clover as a soil improvement crop. On the small acreage which he still keeps in wheat he has increased his yield from 8 to 18 bushels an acre.

One man in Illinois cut his wheat acreage in half, limed 30 acres, and in addition to carrying a herd of dairy cattle on sweet clover pasture the second summer he turned under the clover and increased his corn yield 6 bushels an acre the following year. He was the only one of 10 farmers in his neighborhood who could show a profit last year, although they all kept records to make a comparison.

These farmers are solving their agricultural problems in the only way they can be solved permanently, that is, by mixing common sense crop diversification and crop rotation, no farmer can prosper.

Southern cotton growers may also profit by the lessons learned by these Western wheat farmers who turned to other crops, a few dairy cattle, swine and chickens. Crop diversification and crop rotation have been practiced more widely in the South in recent years than in the wheat growing regions of the West, for the South, except in limited areas of the cotton belt, produces a greater variety of crops than any other farming section of the country and produces more food for home consumption than any other part of the country. Nevertheless, Southern cotton farmers can develop and broaden their farming operations by turning more to cattle and hogs and poultry, and truck crops in the more thickly settled portions of the South.

SENSIBLE VIEWS OF A NEGRO LEADER AS TO HOW TO BENEFIT HIS RACE.

J. FINCH, financial secretary of the Utica Normal A and Industrial Institue, for the training of colored young men and women, writing from the Institute at Utica, Miss., to the Manufacturers Record says:

"Every school in the South should have a Blue Book of Southern Progress so as to tell the students of affairs of today and at their doors and not so much of affairs of 1.000 years ago and 1,000 miles away. We need to know more about the things right around us and the Blue Book of Southern Progress is so prepared as to make us love the South and to realize that the ground on which we stand is holy ground. Let me pledge to you my earnest and sincere support in getting this great book before our Southern people. course, we also want this book to go everywhere so that people miles away will have to give us the credit we are due.'

And then referring to some suggestions contained in a letter to Mr. Finch in regard to the things which the negroes of the South must do for their own development Mr. Finch

"Let me thank you for the most vital suggestion you so kindly gave me in your letter. I wish that every man in the South would be as frank and as broad-hearted as you are and were in your letter. You have the exact and only solution. That is, the negro must be taught wherever he goes, to do more providing for himself. He has never raised enough foodstuffs for his family, to say nothing of having anything for sale. A person who has to depend upon his 'boss' for everything, keeps low wages in our neighborhood, simply because he must eat, and will do anything at any price for a

"This will not be so when the negro learns to buy a home, whitewash or paint his home, and raise all that he eats in this home. This is the problem to be solved. The negroes must be taught to become property owners and as soon as they own a home, they will have individual initiative. They will do any kind of honest labor to keep this home.

"The elimination of scrub stock must also be instilled into the minds of my people. The negro has not learned to have one good mule and feed him well. Go through the country and you will find on the average negro farm, enough mules to be used at a plantation four times as large. This is not all; he hasn't a shed nor barn for these mules. They stand out in the weather and make the best of the situation.

"I agree with you that the South will be much better when the cheap labor is all gone. And I am taking the liberty to say that the negroes who are remaining in the South are of such a class that they will appreciate assistance from the white man, and will also show their appreciation by giving just compensation."

ARE PROFESSIONAL PROMOTERS TRYING TO EXPLOIT COOPERATIVE MARKETING CONCERNS?

FROM the tenor of several communications to the Manufacturers record it appears that fear is spreading in agricultural circles in the South that the cooperative marketing system is being exploited for the financial profit of promoters in that line and to the detriment of the interests of the producers. These fears may be justified or may be entirely without foundation in fact, but realization seems spreading that the field offers tremendous possibilities for promoters and may prove a temptation to some to try to cultivate it.

Instead of the participants in a cooperative organization getting together themselves for their mutual benefit, it is reported that in some cases the organizations are effected by one or more individuals who charge heavily for their alleged services in the work and practice methods not beneficial to the producers, financially or in other ways.

In a contract between one cooperative association and the producers appears a specification under which the producer authorizes the organization to deduct from the net proceeds of the sale of his products the following items: Proportionate actual costs incurred in collecting, processing, handling and marketing his products, as estimated and determined by the association, including the costs of organizing, incorporating and extending the work of the association, and the overhead, maintenance and operating expenses of the association; the costs of containers and other supplies and services furnished the producer, and, above all, a uniform percentage deduction which shall not exceed 3 per cent of the net proceeds of the sale of the members' products, such percentage deduction being made for the purpose of providing capital, surplus and reserve funds which the association may deem necessary and desirable to establish.

Were such an association managed by its members, or member-representatives, it is claimed that the terms of even such a contract might not be onerous, but that under the management of promoters of such an association the terms may be unreasonably severe and the financial burden too heavy to be borne. Tremendous salaries are cited for some promoters or managers, paid by the members of the cooperative organizations, and other expenses are named which would not appear, it is said, were the cooperative organizations formed and managed by the producers themselves.

When producers in any line see an outside individual active in organizing them for their own benefit, in preference to their organizing themselves, they hardly may be criticised for suspecting that the promoter is not working solely for their financial health, but also has an eye open for any financial crumbs which may fall to him from the cooperative table.

EXPORT VALUES INCREASE—IMPORT VALUES DECLINE.

FOR the nine months ending March, the total value of domestic exports amounted to \$3,322,938,000, compared with \$2,946,561,000 the total value of domestic exports for the corresponding nine months of 1923. This is an increase in value for the nine months of 1924 of \$316,927,000. Total exports for the nine months ending March, including re-exports of foreign merchandise, amounted to \$3,322,938,000, compared with \$2,994,925,000.

The total value of imports for the nine months ending March was \$2,653,087,000, or a decrease of \$70,847,000, com-

pared with the total value of imports for the nine months ending March, 1923.

During this period the value of exports for all items increased except unmanufactured foodstuffs and food animals. Import values decreased in the items of crude materials for use in manufacturing and manufactures for further use in manufacturing.

In the following table is given an analysis of the imports into and exports from the United States for the nine months ending March, 1924 and 1923, as reported by the Department of Commerce:

IMPORTS Crude materials for use in manufac-	Nine Months 1923 Value	EndedMarch 1924 Value
turing	070 255 000	\$896,786,000
Foodstuffs, crude, and food animals	265,980,000	
Foodstuffs partly or wholly manufac-	200,000,000	278,515,000
tured	333,249,000	270 507 000
Manufactures for further use in manu-	333,249,000	379,597,000
facturing	511 049 0D0	TOO TOO 000
Manufactures made 6	511,042,000	506,582,000
Manufactures ready for consumption	527,606,000	570,085.000
Miscellaneous	15,802,000	21,522,000
Total imports\$2	2,723,934,000	\$2,653,087,000
Crude material for use in manufactur-		
ing	\$824,926,000	\$1,082,219,000
Foodstuffs, crude, and food animals	329,285,000	164,349,000
Foodstuffs partly or wholly manufac-	,,	101,010,000
tured	443,065,000	447.634.000
Manufactures for further use in man-	110,000,000	111,001,000
ufacturing	337,713,000	441,109,000
Manufactures ready for consumption 1	1,005,772,000	1,123,229,000
Miscellaneous	5,800.000	
Miscellaneous	5,500,000	4,949,000
Total domestic exports\$2	946 561 000	\$3,263,489,000
Foreign exports	48 364 000	59,449,000
	10,001,000	00,110,000
Total exports\$2	001 007 000	\$3,322,938,000

[From the Tennessean, Nashville.]

A Book Needed by Every Southerner.

The Manufacturers Record announces the revision of its "Blue Book of Southern Progress," to be known as the 1924 edition. Nothing of a statistical nature on the South that has been published has satisfied the need for such information as has this effort of the Record. It is a book that should be in the hands of every progressive Southerner. It presents the case for the new South in a convincing manner. It shows us how great we really are and what the future holds in store for us.

Cottonseed Oil Millers to Meet at New Orleans.

The cottonseed oil millers will hold the annual convention of their interstate organization in New Orleans, May 7, 8 and 9. The program prepared by President S. J. Cassels of Montgomery, Ala., provides for a series of hourly conferences, covering the entire week of May 5 to 9.

One of the most important of these conferences will be on May 6, on uniform cost accountancy. On May 7, the chief address will be by Oscar Wells, president of the First National Bank of Birmingham, Ala., and vice-president of the American Bankers' Association, who will give the bankers' view of the situation. On the same day, Chief Engineer A. M. Schoen of the Southern Fire Underwriters' Association will tell what must be done by methods of fire prevention and protection to eliminate the excessive fire hazard of the industry and thus strengthen the mills' financial credit. On May 8, the marketing problems of cottonseed meal and cake will be discussed, following an address on "New Discoveries in Feeding Cottonseed Meal," by Dr. F. B. Morrison of the Agricultural College of the University of Wisconsin. In the afternoon of that day, at an open meeting of the Commerce Relations Committee, John Aspegren of New York will deliver an address on "New Conditions in the Industry," in which he will cover the whole field of current ills and suggested remedies.

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It is confidently expected that constructive action in the interests of future welfare will be taken as a result of the serious discussion of all phases of cotton oil mill problems.

No Room Left for the Pessimist.

AMERICA'S AMAZING ADVANCE THRILLINGLY PRESENTED BY ONE OF AMERICA'S FOREMOST LAWYERS.

Before the Southern Hardware Jobbers' Association at its New Orleans meeting April 8, Col. Peter O. Knight of Tampa, widely recognized as one of the foremost business lawyers of America, intimately identified with large material development interests in the East as well as in Florida, pictured the progress of America in such a way as to stir the pulse of every lover of his country.

The following extracts from his speech should be studied by pessimists as well as by optimists, but there is no room in such a land for any pessimist who after reading this address does not become an optimist. In part Col. Knight said:

"On the 4th of July, 1776, the United States of America was born, and in less than a century and a half it has grown to be the giant of the earth, the banker of the world, with one hundred and twelve million of people, a national wealth of three hundred billion dollars, and no class or group controls the financial well-being of our citizens.

"We have grown so great that we have one city that has more population and wealth than Norway or Sweden or Scotland or Holland or Belgium or Denmark or Switzerland or Cuba or any of the three Balkan States as they were constituted before the war. Our soil is so productive, our climate so incomparable, our natural resources so impossible of description as that we could build a wall around our national borders and be able to support ourselves and live in comfort, luxury and ease without having commercial intercourse with any other nation of the world. We now have in our vaults over four billion two hundred million dollars of gold, more than half of the gold supply of the world, and are capable not only of taking care of our own necessities, but the necessities of the remainder of the world combined.

"In 1894, in Tampa, when I organized the Exchange National Bank of that city, looking around for banking connections in New York city, I ascertained that the Chemical National Bank was then the largest bank in the United States, having what seemed to me the stupendous sum of thirty millions of dollars of deposits. There was not a bank in this country at that time, outside of New York city, that had ten millions of deposits. There was not a bank in Boston at that time that had five millions of deposits. Now in the city of New York we have the National City Bank with more than one hundred million dollars of capital and surplus, more than three and a third times as much as the total deposits of the largest bank in the United States a few years ago. Now that bank has some six hundred million dollars of deposits, more than four times as much deposits as all the banks in the South had combined in 1880. And now the banks in New York city have deposits of more than five billion dollars, more than twice the deposits of all the banks in the United States in 1890. And today in this great country the total deposits of all the banks amount to thirty-seven billion dollars, with forty-four billions of banking resources.

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"When I located in Tampa in 1890 there was one bank in all South Florida—the First National Bnak of Tampa. Its total banking resources, capital, surplus and deposits amounted to only three hundred thousand dollars. That was all that was necessary to take care of the then necessities of South Florida. Now the deposits of the banks of Tampa alone are twenty times the amount of the entire deposits of all the banks of the State of Florida when I located there, and the aggregate deposits of the banks in Florida today are twice as much as the entire deposits of all the banks of the South in 1880.

"And that story can be told of every other section of the United States, and it epitomizes the entire story of the amazing growth and prosperity of this wonderful country.

"The steam railroad mileage has increased from 53,000 miles in 1870 to 260,000 miles in 1924. The gross revenues of the railroads in 1915 were two billion eight hundred and seventy-one million dollars. The gross revenues in 1923 were in excess of six and a half billion dollars. And the railroads of the country hauled in 1923 the incredible number of fifty-two million loaded freight cars, an amount unprecedented in the history of this nation.

"And right here let me remind you that the wages paid to the employes of the railroads today amount to approximately two billion eight hundred million dollars, which is equal to the sum of the gross receipts of the railroads of this country in 1915.

"The population of the United States has increased from 1870 to the present time from thirty-eight millions to one hundred and twelve millions. The national wealth has expanded during the same period from thirty billion dollars to three hundred billion dollars; the money in circulation, from six hundred and seventy-six million dollars to nearly seven billion dollars; the value of farm animals, from one billion five hundred million to nearly ten billion; cotton from four million bales to in excess of ten million bales; coal from twenty-nine million tons to six hundred million tons; petroleum from two hundred and twenty-one million gallons to twenty billion gallons; and steel from sixty-eight thousand tons to thirty-seven million tons. Manufacturing materials have increased from one billion dollars of value to fourteen billions in 1924 even: and the value of other finished products from less than two billion dollars to more than twenty-six billion dollars.

"In 1860 the assessed value of property in the entire United States was only twelve billion and eighty-four million dollars, and in 1923 property subject to general taxation in the South alone was assessed at thirty billion dollars, which is thirteen billion dollars more than the entire assessed value of all the property in the United States in 1880.

"In 1880 the total value of the farm products of the United States was two billion two hundred and twelve million dollars, and in 1921 the value of the South's farm products alone was approximately eight billion five hundred million dollars.

"We are producing at the present time about 75 per cent of all the corn in the world; about 30 per cent of all the hogs; we produce 65 per cent of all the cotton grown in the world, and there is nothing in sight to threaten the supremacy of the South in the production of this most important of all fibers for cloth and clothing.

"The production of fruits and vegetables is so great that its volume of business may be judged from the figures of shipments, which exceeded five hundred thousand cars for the year 1923. The magnitude of this business may be realized when I tell you that it took over forty thousand cars to ship last year's citrus crop from South Florida alone.

"As significant of the soundness of this country and of the amazing amount of business done by it last year, it may be well to call your attention to the fact that the Federal Reserve Bank has a total gold reserve of three billion two hundred and sixty-three million dollars, as against Federal note circulation outstanding of two billion and twenty-two million dollars, so that it has more than \$1.50 of actual gold behind every dollar of Federal notes outstanding, a condition unprecedented in the history of any nation. And as representing the stupendous amount of business done in this country last year it is only necessary to call your attention to the fact that the turnover in dollars and cents of the Federal Reserve Bank operations alone amounted to the staggering sum of five hundred and fifty billion dollars,

"And, parenthetically, let us not forget that the South has practically 100 per cent of the country's cotton, sugar cane, molasses, peanuts, turpentine and rosin, sulphur, phosphate rock, bauxite, fullers' earth and barytes. Between 250 and 300,000 carloads of foodstuffs are shipped out of the South into the North and West annually, largely made up of fruits and vegetables. This is double the number of cars required to move the entire cotton crop. Fifty per cent of the active spindles in the cotton mills of the country in the fall of 1923 were in the South, with the South gaining in percentage constantly. More than half the petroleum produced in the United States is in the South, and a fraction less than 50 per cent of the refining capacity of the country lies in the South. Ninety per cent of the country's output of carbon black is from plants in West Virginia and Louisiana. Ten Southern States produced over fourteen billion feet of lumber in 1922, being more than 45 per cent of the production of the United States.

"As another evidence of the tremendous purchasing power of the people as a whole in this country, it is only necessary to state that at the close of the last year there were nearly 15,300,000 automobiles in the United States, an increase over the year before of 4,000,000 cars; and 15,000 moving pictures. New York, California, Ohio and Pennsylvania alone own twice as many cars as the rest of the world combined; and Florida, with its one million of people, owning more cars than Germany, Spain and Italy combined, with their one hundred and eighteen million of population.

"And yet, with the apparent evidences of extravagance, there are today thirty-one million savings accounts among twenty-one million families, or one and one-half savings accounts to every single family in the United States, the savings accounts having increased in amount one billion dollars more than for the year 1922, and the highest on record in this country.

"We talk about taxes, now amounting, city, county, State and Federal, to the enormous sum of something like eight billion of dollars annually, an amount of money eight times as large as the national debt in 1917; an amount of money within two billions of as much as the wealth of Spain and slightly less than one-half of the wealth of Italy. And yet, in spite of all that, the net income of the people of this country is so great that for the year 1923 a survey of building construction made by the Copper and Brass Research Association shows that there was invested in building operations alone five billion nine hundred and twenty-two million dollars. And it is conservatively estimated that for the same year three billion six hundred million dollars of new securities were issued.

"We have had no pestilence, no famine, no disease, no earthquake, no volcanic eruption, no destruction of property, and I confidently assert, without fear of successful contradiction, that our country as a whole is in a sounder position and fundamentally stronger than ever in its history. And we have made progress not only financially as no other nation, but we have made more improvement in the arts, sciences and inventions than the rest of the world combined.

"We can now sail over the seas in such palaces as our forefathers never dreamed of as being on the land even when

they first founded this country. And we can sail under the seas and fly in the air and talk around the earth. And by reason of the telephone, the telegraph and wireless, and our transportation systems on sea and on land, a man can actually transact more business in one day than Methuselah could in the thousand years that he lived. We are spending more money for education and for religious purposes than all the rest of the world combined. We are spending more money for charitable and eleemosynary institutions, for the deaf, the dumb, the blind, the insane, the poor and the old, than the rest of the world combined. And we have effectually demonstrated to the rest of the world, contrary to what they have heretofore thought or now pretend to think, that we are not a nation of money grabbers; we are wont to sing the praises of the patriots of '76 who fought, bled and died' to make this country free, but we forget that a few years ago, in seventeen months, we appropriated the staggering sum of fifty-eight billion dollars and actually spent eleven billion dollars more than the cost of operating this Government from its birth until 1914, and gave our blood and lives for the purpose of extending to the people of the earth those liberties, those privileges that our forefathers in '76 fought, bled and died for, for this country alone, thus evidencing a spirit of patriotism and civilization that our wonderful forefathers even never dreamed of.

"And all of this is because, first, of the wonderful natural recources of this country; second, we have the most virile, intelligent and progressive citizenship of any nation in history; third, because of our Constitution, the greatest instrument ever penned by mortals, and our form of government, the most wonderful ever formed by men, a government that recognizes that it was formed for the purpose of securing the inalienable rights of man, enabling him to pursue his ambition and his activities to the utmost, the sky being the limit, providing only that he acts within the bounds of reason and decency and does not infringe upon the equal rights of the other man; fourth, because we have hearkened to the advice of our forefathers and have, up to the present time, kept out of foreign entanglements, political alliances and embroilments.

"We have made some mistakes. In my opinion the adoption of the primary system for the election of political officers is a mistake, evidenced by the fact that, as a whole, the people holding office today in the United States are of less ability and capacity than ever before in the history of this nation.

"I think we made a mistake in adopting the constitutional amendment providing for the election of United States Senators by the people, because the very purpose of our forefathers in providing for a Senate was that an upper house of Congress should be established to be composed of conservative men to be elected by representatives of the people to act as a check upon the hasty impulses of the lower house, which was to be composed of members to be elected direct by the people.

"We have made a mistake, in my opinion, in adopting a graduated income and inheritance tax system, because, contrary to the very fundamentals of our Constitution, it provides that taxation shall be equal and of uniform operation throughout the land, and that each shall bear his just burdens of government. * * *

"But these have been domestic mistakes, all in the family. We are a wonderful people, educated in the art of self-government and control. As Lincoln has well said, 'You can fool some of the people all of the time; you cannot fool all of the people some of the time; but you cannot fool all of the people all of the time,' All these mistakes can be rectified and corrected if, in time, it should prove that the action of our people in the foregoing matters has in fact been mistakes, because this is a government of the people, by the people, and for the people.

"But there is one mistake we must not make, and that is to

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enter into any political alliance with any of the nations of Europe.

"Washington in his farewell address said:

"'Why forego the advantages of so peculiar a situation? Why quit our own to stand upon foreign ground? Why, by interweaving our destiny with that of any part of Europe, entangle our peace and prosperity in the toils of European ambition, rivalship, interest, humor or caprice?'

"This is so expressive of the situation today that it might have been written yesterday.

"In a letter to Patrick Henry, October 5, 1795, Washington said: 'Standing as it were in the midst of falling empires, it should be our aim to assume a station and attitude which will preserve us from being overwhelmed in their ruins.'

"Again, in his farewell address, he said: 'It is our true policy to steer clear of permanent alliances with any portion of the foreign world.'

"In a letter to Gouverneur Morris, December 22, 1795, Washington said: 'My policy has been and will continue to be to maintain friendly terms with, but to be independent of, all nations of the earth,'

"Again, in his farewell address, he said: "The great rule of conduct for us, in regard to foreign nations, is in extending our commercial relations, to have with them as little political connection as possible."

"In a letter to Patrick Henry, he said: 'I want an American character, that the Powers of Europe may be convinced we act for ourselves and not for others. This, in my judgment, is the only way to be respected abroad and happy at home.'

"In a letter to Patrick Henry, October 9, 1795, he said: 'My ardent desire and my aim has been to keep the United States free from any political connections with every other country, to see them independent of all and under the influence of none.'

"In a letter to Chevalier de la Luzerne, February 7, 1788, he said: 'Separated, as we are, by a world of water from other nations, if we are wise we shall surely avoid being drawn into the labyrinth of their politics and involved in their destructive wars.'

"On the 8th of May, 1796, in a letter to Alexander Hamilton, he said: 'We are an independent nation and act for ourselves; we will not be dictated to by the politics of any nation under Heaven.'

"John Adams, in his message to Congress, 1797, said: "We ought not to involve ourselves in the political system of Europe, but always keep ourselves separate and distinct from it."

"Thomas Jefferson, in his first inaugural address, said: 'Peace, commerce and honest friendship with all nations, entangling alliances with none, I deem one of the essential principles of our Government, and, consequently, one which ought to shape its administration.'

"In a letter to Thomas Paine, March 18, 1801, he said: 'Determined as we are to avoid, if possible, wasting the energies of our people in war and destruction, we shall avoid implicating ourselves with the Powers of Europe even in the support of principles which we mean to pursue. They (the Powers of Europe) have so many interests different from ours that we must avoid being entangled in them.'

"In a letter to Gideon Granger, 1800, he said: 'Let' our affairs be disentangled from those of all other nations except as to commerce. The less we have to do with the amities or enmittees of Europe the better.'

"In a letter to William Short, October 3, 1801, he said: 'We have a perfect horror at everything like connecting ourselves with the politics of Europe.'

"In his third message to Congress, in October, 1803, he said: How desirable it must be, in a Government like ours, to see its citizens adopt individually the views, the interests and the conduct which their country should pursue, divest themselves of those passions and partialities which tend to lessen

useful friendships and to embarrass and embroil us in thecalamitous scenes of Europe.'

"In a letter to President Monroe, June, 1823, he said: "Do what is right, leaving the people of Europe to act their follies and crimes among themselves, while we pursue in good faith the paths of peace and prosperity."

"James Madison said: 'A steady regard for the true interests of the United States equally avoids an abandonment of their just demands and a connection of their fortunes with the system of other powers.'

"President Monroe, in his message to Congress, December 2, 1823, said: 'In the war of European Powers, in matters: relating to themselves, we have never taken any part, nor-does it comport with our policy so to do. It is only when our rights are invaded or seriously menaced that we resent injuries or make preparations for our defense.'

"Daniel Webster said: 'Nothing will ruin the country if the people themselves will undertake its safety, and nothing can save it if they leave that safety in any hands but their own.'

"John Quincy Adams, in his message to Congress, March 15, 1826, said: 'The period which Washington predicted has arrived: America has a set of primary interests which have none or a remote relation to Europe; the interference of Europe, therefore, in those concerns should be spontaneously withheld by her upon the same principles that we have never interfered with hers.'

"Andrew Jackson, in his fourth annual message in December, 1832, to Congress, said: 'A strict adherence to this policy (to cultivate free commerce and honest friendship with: all nations, but to make entangling alliances with none) has kept us aloof from the perplexing questions that now agitate the European world and have more than once deluged those countries with blood. Should these scenes unfortunately recur, the parties to the contest may count on a faithful performance of the duties incumbent on us as a neutral nation. and our own citizens may equally rely on the firm assertion of their neutral rights. Our best wishes on all occasions, our good offices when required, will be afforded to promote the domestic tranquillity and foreign peace of all nations with whom we have any intercourse. Any intervention in their affairs further than this is contrary to our principles of international policy and will always be avoided."

"Martin Van Buren, in his message to Congress, December 5, 1837, said: 'We have faithfully sustained the foreign policy with which the United States, under the guidance of their first President, took their stand in the family of nations.'

"John Tyler, in his second annual message, delivered December 6, 1842, said: 'Carefully abstaining from interference in all questions exclusively referring themselves to the political interest of Europe, we may be permitted to hope an equal exemption from the interference of European Government in what relates to the States of the American continent.'

"James K. Polk, in his fourth annual mesage, delivered December 5, 1848, said: 'Our country stands higher in the respect of the world than at any former period. To continue to occupy this proud position it is only necessary to preserve peace and faithfully adhere to the great and fundamental principle of our foreign policy of non-interference in the domestic concerns of other nations. The great results which have been developed and brought to light by this war will be of immeasurable importance to the future progress of our country. They will tend powerfully to preserve us from foreign collisions and to enable us to pursue uninterruptedly our cherished policy of "Peace with all nations, entangling alliances with none."

"Millard Fillmore, in his annual message of December 5, 1852, said: 'It has been the uniform policy of this Government from its foundation to abstain from all interference in the domestic affairs of other nations. During the terrific contest of nation against nation which succeeded the French.

Revolution we were enabled by the wisdom and firmness of President Washington to maintain our neutrality.'

"Franklin Pierce, in his second annual message, said: 'The wise theory of this Government, so early adopted and steadily pursued, of avoiding all entangling alliances has hitherto exempted it from many complications in which it would otherwise have been involved.'

"James Buchanan, in his inaugural address, said: "To avoid entangling alliances has been a maxim of our policy ever since the days of Washington, and its wisdom no one will attempt to dispute."

"Abraham Lincoln, in his second annual message delivered December 1, 1862, said: 'In this unusual agitation we have forborne from taking part in any controversy between foreign States and between parties or factions in such States. We have attempted no propagandism and acknowledge no revolution. But we have left to every nation the exclusive conduct and management of its own affairs.'

"Ulysses S. Grant in his second annual message, said: 'We were asked by the new Government to use our good offices, jointly with those of European Powers, in the interest of peace. Answer was made that the established policy and the true interests of the United States forbade them to interfere in European questions jointly with European Powers,'

"Grover Cleveland, in his first annual message, delivered December 8, 1885, said: 'Maintaining as I do the tenets of a line of precedents from Washington's day, which proscribe entangling alliances with foreign States, I do not favor a policy of acquisition of new and distant territory, or the incorporation of remote interests with our own.'

"In his special message, delivered December 17, 1895, he said: 'If the balance of power is justly a cause for jealous anxiety among the Governments of the Old World and a subject for our absolute non-interference, none the less is an observance of the Monroe Doctrine of vital concern to our people and their Government.'

"Not having been to Europe since the breaking out of the World War in 1914, I concluded to visit Europe last summer for the purpose of studying conditions at first hand. I did not go for sight-seeing. I studied conditions very thoroughly at first hand in Belgium, France, Spain and Italy, and, at second hand, European conditions generally.

"The thing that struck me was the difference between conditions now in those countries that I visited and before the the war. It is my deliberate opinion, based upon conversations with rich and poor, high and low, and upon observations in every direction, that, at least in France, Italy and Spain, the people are more prosperous than they ever have been in their history. I saw no evidences of unemployment, distress or poverty anywhere. The conditions in those three countries, particularly, relatively are just about as they are here—high wages and no unemployment.

"The thing that distressed me most, however, was to find the animosity as expressed by the individuals of each nation against the other nations. All nations in Europe are at each other's throats, and Europe is an armed camp. * *

"The thing that impressed me most in traveling about and undertaking to study conditions in Europe was to realize the utter absurdity and futility of the United States endeavoring to adjust the political and controversial troubles of the European nations. We do not understand the people of those nations and they do not understand us.

"It is because of the policy mapped out by our forefathers that we have the greatest nation on this earth, great in education, religion, arts, charity, inventions, science, finance and power. There is no other nation in its class. And yet Europe secretly despises us. It thinks we are the product of the steerage of Europe, and that while we are a wonderful

people in a commercial sense, we lack all of the refinements of life, European culture.

"Europe should be told emphatically by our Government what the views of the American people are, at least 85 per cent of them. It should be told that we do not expect to play nurse to their situation, and that we expect them to settle their own differences. When they are told this authoritatively you will see a different situation in Europe, in my opinion. And such an emphatic declaration is the best thing that could happen for the peace of the world. * *

"Everybody knows that a treasure of blood and gold has been poured out by the Americans for the Belgians, during and after the war. And let us see what her appreciation of it is. On January 12 of this year Henri La Fontain, Vice-President of the Belgian Senate, said:

"'It cannot be denied that we fought for America and that we saved her. Consequently we are entitled to expect effective help from her. Our Government ought to have the courage to tell this to the American people. America owes to Europe about \$88,000,000 instead of claiming \$12,000,000,000 from Europe. Nobody has courage enough to dare to say this to the Americans.

"'If the latter realized it, many of them undoubtedly would admit the justice of the claim that we saved America, and that more than 2,500,000 of our men died for her. That is what European statesmen ought to tell America.'

"If this statement of this Belgian official represents the views of the Belgian people—and my observations abroad were such as that I believe it does—it stamps them as the ingrates, the monster grafters of this earth.

"Last fall, upon my return from Europe, I gave some of my views to the New York Herald with reference to the French situation, paying my respect to their attitude towards America generally. A lady of this country who thinks so little of America and Americans that each time she has married she married a foreigner, took me to task through the Associated Press, and was quite demonstrative and voluble in stating the love of the French for Americans generally.

"Before I left Paris there was considerable indignation expressed by the French because the American tourists refused to accept the French negroes as equals. And upon one occasion there was a personal encounter between some negroes and American's in a French restaurant. In expressing the love of the Frenchman for the American I quote you what some of the French papers said about the incident.

"The Petit Journal advised pacifists from across the Atlantic to imbibe moderately and save their fists for better causes.

"Le Peuple said, 'The attitude of the Yankees toward Frenchmen of color shows us how much barbarism there is hidden under the apparent civilization of the United States. The Yankees believe themselves refined because they have sixty-story buildings and telephones even in their bedrooms.'

"La Homme Libre said, "There is often more distinction in the black man than in the white snob, even though the fingers of the latter are covered with diamonds and his pockets full of bank notes. The mentality of the people of dollars is deplorable. They think because of the favorable exchange rates they are masters everywhere." * * *

"But you have been told, in spite of the wonderful prosperity of this country, that it is necessary to join the League of Nations so as to increase our foreign commerce. Do you know that the export and import commerce of the United States for the year 1923 was larger than in any year of peace time in our history? Do you know that the exports for last year totaled four billion two hundred million, nine per cent larger even than in 1922, and with the supposed impoverishment of Europe the imports in 1923 were three billion seven hundred and eighty nine million dollars? The exports of manufacturers alone for the year 1923 aggregated about

two billion dolars, against a little more than one billion in the fiscal year of 1913, less than half a billion in 1903, and less than two hundred million dollars in 1893. We do not need to join the League of Nations in order to do business with the rest of the world. The rest of the world will do business with the people of this country if they can buy better goods and at less prices here than elsewhere. And this whether we join the League of Nations or not. There never was a truer saying than 'business is business and friendship is friendship.' And as indicating some of the conditions in Europe, it will probably surprise you to know that the British output of steel for eight months of 1923 averaged more than 70,000 tons more than the monthly average of 1913; and that the Belgian production in August exceeded the previous high record rate of 1912.

"And there is no necessity of joining the League of Nations in order to help Europe, for we have done that to the utmost of our capacity during the war and since,

"And to enter a World Court is just as complete a mistake. It is said by the proponents of the World Court that we have a parallel to that court in our own country in the Supreme Court of the United States; that the Supreme Court is an interstate court, and it is but a step from an interstate court to an international court; that the Supreme Court of the United States passes on controversies between Kentucky and Indiana, two sovereign States, or upon controversies between any other two States that may come before it. The fallacy of this argument lies in the fact that the people of this country are different from the people of any other country. and that the form of our Government is different from the form of any other Government. Under our theory of government man has inalienable rights—the right to live, to be happy and to have, hold and enjoy property, and the purpose of our Government is to secure him in the protection of those rights. Under our theory of government man does not derive his rights from the Government. Upon the contrary, the Government derives its just power from the consent of the governed. Under our theory of government, with our Constitutional limitations, all the people of the United States combined cannot take away from the humblest citizen of the land the smallest right guaranteed to him. In all other Governments the citizens derive their rights from the Government, and we have revolutions in other Government's because the many revolt against the Government for the purpose of securing to themselves the rights granted only to a few; whereas, in this country, there could be no revolution against the Government because the people derive no rights from it. To revolt against the Government would be simply to revolt against themselves. Our language is different, our views, thoughts, habits of life, morality, principles, Christianity and everything else. The people of Europe recognize nothing else but force. Their conception of us is that we are a great big, simple Uncle Sam.

"Do you think that Cuba appreciates the fact that we shed our blood and gave our lives to make it free? If you do you do not understand Cuba. Do you think Spain appreciates the fact that, after having given her a complete licking, instead of demanding anything from her and after having the Philippines in our possession, we took this liability off of her hands and actually paid Spain twenty million dollars for the Philippines? If you do you do not understand Spain.

"Do you think that the Allies appreciate the fact that the United States, after having made tremendous sacrifices in blood and money during the late World War, withdrew from Europe without asking for a foot of territory or a dollar of indemnity. Upon the contrary, they secretly laugh at us for it. Do you think that Germany or Russia or Austria or Turkey likes us? We had an evidence of the feeling of Germany but a few weeks ago when the wooden heads declined to hang their flag at half mast when Mr. Wilson

passed away. Why, our ideals, our ideas of right and wrong, our sense of justice, and the principles that actuate us privately and publicly in what we do are so different from that of the peoples of any other nation that we are in a class by ourselves. We are educated in the art of self-government. No other nation is, with that sort of a situation, which but too feebly and briefly expresses it what arrant fools we would be to permit a jury composed of representatives from these other nations to pass upon our rights, to pass upon our duties. It is incredible that any person can think of such a thing. It is a feeble-minded citizen indeed that would submit his controversies to a packed jury. And the same principle prevails here.

"And what is there for us to have adjudicated by a World Court? What controversy have we with anyone to settle? We have been able to take care of our situation for the century and a half that we have lived. Why the necessity of having the nations of the rest of the world pass upon our duties, obligations and rights now? And why should we pass upon theirs?

"So far as having a World Court is concerned, to prevent our being engaged in war, let it be understood that all that the European nations recognize is force; and if there is to be any departure in our policy, it should be in the direction of building up and maintaining a strong navy and a strong army that will compel respect for our nation and protect it from aggression and attack much more effectively than any League of Nations or World Court.

"When I think of our wonderful past, when I contemplate our magnificent present, and when I visualize what the future has yet to unfold, and I see men and women running hither and thither urging that we enter into the maelstrom of foreign chaos, with all the terrible results that will come from it, I wonder if they are bereft of their reason. Why cannot we be satisfied and thank God for our tranquillity, peace and manifold blessings?

"Recently in going through one of the parks in New York, I stood before the statue of Nathan Hale. My mind went back to the time when he was arrested in the American Revolution for being a spy. I saw him standing under the tree with the British officer having the noose fixed about his neck. And I heard the British officer say. 'Hale, do you care to say anything before you die?' Hale looked Heavenward and said, 'Yes, my only regret is that I have but one life to give for my country.' Then the statue pictures his standing there with his hand shading his brow, wonder and amazement depicted on his splendid countenance as he looked over that wonderful city of New York contemplating the result of the sacrifices and efforts made by him and the patriots of '76.

"Oh, how little we realize what a wonderful people we are! How little we appreciate ourselves! The skies were never brighter nor the potency of this country greater than today. And we will continue and grow better and bigger and greater in every respect if we only continue in the paths mapped out by our forefathers and because of the following of which we have become the most powerful and wonderful nation recorded in history. Will we do it?"

Contract Awarded for \$500,000 Hotel at Richmond—First Section of \$1,500,000 Project.

Richmond, Va.—The Hotel Richmond Realty Corporation has awarded contract to the Wise Granite Construction Co. of this city for the erection of a new 150-room hotel here to cost \$500,000, exclusive of site and furnishings. The building will be 85 by 130 feet, of steel construction, with stone, terra cotta and brick exterior. Marcellus E. Wright of Richmond is the architect.

This building, it is said, will be the first section of a hotel which will ultimately cost \$1,500,000 and contain 500 rooms.

Rapidly Completing State Organizations for Southern Exposition Next February.

By W. G. Sirrine, President, Southern Exposition,

Southern Exposition which is to be held in the Grand Central Palace, in New York city, February 2 to 14 of next year. Six States are now organized and are rapidly disposing of space within their borders to exhibitors. The States are:

Virginia, North Carolina, South Carolina, Georgia, Alabama and Tennessee.

The plan of organization in each State follows the same general lines. There is a committee composed of active chamber of commerce workers with a chairman and a secretary. In each community the local chamber of commerce is appointing a soliciting committee to call upon the manufacturers and others in the community to make their applications for space. These are sent in to the State secretary and by him transmitted to the executive secretary at Greenville. It is expected that there will be available for each State about seventy-five hundred square feet. Positions will be drawn for at the meeting of the executive committee, which will be held in Atlanta in June, and the State committee, after its position has been assigned to it, will then group the exhibitors and arrange the State exhibit in any manner it sees fit.

While the Southern Exposition will provide the booths, railings, signs, etc., and decorate the hall, it will not attempt to dictate to the States how their exhibits shall be arranged.

In some of the States a good deal of attention will be given to agricultural exhibits. The State of South Carolina, for instance, has by legislative appropriation taken about a third of the State's quota, about twenty-five hundred square feet. Governor Thomas G. McLeod will appoint a committee to look after this exhibit, which was arranged as a result of a bill introduced by Senator R. M. Cooper, who is quite active in agricultural matters. Dr. W. W. Long of Clemson College and other men prominent as agricultural leaders in South Carolina have backed the movement. In several of the States it is proposed to underwrite a fund for agricultural and horticultural exhibits, which the Legislature will be asked to provide for at the next meeting.

It is now becoming apparent that the exhibits will cover a very wide scope, much attention being given in some States to minerals and timber, as well as to agricultural and industrial products. Some will show fruits nad garden produce. The variety is so great that it will be impossible to mention everything that will be on display.

Thirteen States have been invited to take part in the Southern Exposition, namely, Virginia, West Virginia, North Carolina, South Carolina. Georgia. Florida, Alabama, Mississippi, Kentucky, Tennessee, Arkansas, Louisiana and Texas.

A meeting will be held at Jackson, Miss., on April 25 to consider whether Mississippi will participate. A meeting in Arkansas will be held the first week in May. Meetings to organize the other States are being rapidly arranged.

The State committees that have been appointed so far are as follows:

Virginia: Joseph H. Smith, chairman, President Virginia State Chamber of Commerce, Petersburg; Maude A. Slater, secretary, Richmond; J. Scott Parrish, vice-chairman, Rich! mond; T. P. Thompson, Norfolk; D. B. Ryland, Lynchburg; W. M. Eller, Petersburg.

North Carolina: N. G. Bartlett, chairman, secretary-manager Eastern Carolina Chamber of Commerce, Kinston; Geo. C. Royall, Goldsboro; W. T. Kyzer, Kinston; W. C. Denmark,

Progress is being rapidly made with the organization of the Goldsboro; N. Y. Chambliss, Rocky Mount; M. R. Beaman, Wilson; H. E. Barlow, Newbern; Burke Hobgood, Durham; L. T. Moore, Wilmington; Brent S. Drane, Chapel Hill; W. D. Harris, Chapel Hill; C. O. Kuester, Charlotte; W. C. Roberts, Greensboro; J. S. Kuykendall, Winston-Salem; Warren E. Hall, Asheville; J. H. Cowan, Wilmington.

> South Carolina: W. P. Conyers, chairman, president Chamber of Commerce, Greenville; W. R. Timmons, secretary, Greenville; Fred L. Bryant, Greenville; Frank A. Pierson, Columbia: R. H. Beal, Spartanburg: Meigs B. Russell, Charleston.

> Georgia: E. B. Walker, chairman, manager Savannah Board of Trade, Savannah; W. R. Crite, secretary, Rome; R. E. L. Neal, vice-chairman, Albany; J. Ralston Cargill, Columbus; B. S. Barker, Atlanta; Spencer L. Hart, Augusta; E. W. Carroll, Athens.

> Alabama: O. L. Bunn, chairman, secretary Chamber of Commerce, Birmingham; J. E. Addicks, secretary, Mobile: J. M. Clark, Russellville; W. F. Black, Montgomery; J. B. Brosius, Tuscaloosa; A. E. Osborne, Bessemer City; W. H. Butler, Gadsden.

> Tennessee: E. N. Farris, chairman, manager Board of Commerce, Knoxville; Thomas W. Fletcher, secretary, Nashville: W. A. Nelson, Nashville: Homer Hancock, Nashville: W. N. Porter, Paris; John Wood, Johnson City; C. E. Brehm, Knoxville; C. W. Howard, Chattanooga.

> Mississippi: W. H. Smith, chairman, secretary Chamber of Commerce, Laurel; L. E. Foster, secretary, Jackson.

Virginia Railway and Power Acquires Roanoke Rapids Company—Cost About \$1,000,000.

Roanoke Rapids, N. C .- At a recent meeting in Richmond, Va., of the board of directors of the Virginia Railway & Power Co., action was taken looking toward the purchase of the Roanoke Rapids Power Co. of this city, for a consideration approximating \$1,000,000. Thomas S. Wheelwright. re-elected president of the Virginia Railway & Power Co., is reported as saying that the purchase of the local company was desirable as safe-guarding the light and power system of his own company.

The Virginia Railway & Power Co. according to Mr. Wheelwright, owns a large amount of undeveloped water rights here, and by the acquisition of the local company, it will be enabled in the future to make developments in hydro-electric power and connect with the transmission system of this company by high tension lines, thus curtailing in a measure investment in steam power to insure continuity of service and provide for future extensions.

A number of North Carolina manufacturing towns are supplied with light and power by the Roanoke Rapids Power

Plan \$350,000 Theater at Durham.

Durham, N. C.—Option on a site here has been secured by T. G. Leitch of the Leitch theater interests of Richmond, which plan to erect a \$350,000 theater. The site fronts 90 feet on Queen street and has a depth of about 200 feet on

The building will be of steel and concrete and will probably have a seating capacity of 2000. Milburn, Heister & Co. of Washington, D. C., and Durham are the architects. Nat Ferber is the local Leitch representative.

Coral Gables, Florida, As an Illustration of State Wide Developments.

A BEAUTIFUL SUBURBAN IMPROVEMENT NEAR MIAMI—FROM A GRAPE FRUIT GROVE TO A DISTRICT OF 400 MODERN HOMES OF STRIKING ARCHITECTURAL DESIGN IN A PERIOD OF THREE YEARS.

By E. T. PURCELL, Miami.

Three years ago Coral Gables, at that time comprising 600 acres, was a grapefruit grove and pine woods owned George E. Merrick. Today this tract of tropical wilderness boasts of 75 miles of paved road, from streets that are sixty feet wide to 200 feet wide parked-prados; 85 miles of sidewalks have already been laid: 25 miles of white way with 1000 watt lamps on each post of Spanish design, burn brightly every night until midnight; three water towers with a normal capacity of 84,000 gallons supply

residents and provide the necessary fire protection. Situated about three miles west of Miami at the highest point in Dade County this suburb covers at the present time more than 2000 acres. Because of the tremendous scope of the enterprise and the results accomplished, Coral Gables already ranks as one of the fine suburban developments of America.

The development has not stopped with roads, white ways, and water systems. Today there are approximately 400 homes of Spanish design constructed either of coral rock or cement

The development of Florida as indicated in the widespread activity in the building of towns and the opening up of sub-divisions and the investment of many millions of capital by many leading business people of the United States, as well as by local people, is really one of the marvels of the business activities of the country today. Without a personal study it is practically impossible for any one to visualize what is going on in Florida, and this activity is seen in nearly every part of the state, on the East Coast from Jacksonville to Key West, and on the West Coast along the entire Gulf section, and with equal rapidity in what is known as the Ridge Section, or backbone of Florida, a region of high, rolling land with many far-reaching views.

The spirit with which this development is being carried on is shown in one simple fact, typical of the whole state's work, that two of the large sub-division organizations near Miami have during the entire winter been running splendid busses, holding 24 passengers, from nearly every part of the state to their sub-divisions in Miami, GIVING A FREE FIVE-DAY TRIP TO ALL WHO DESIRED TO AVAIL THEMSELVES OF THE OPPORTUNITY. The passenger is not required to make any investment. He is simply given in this way the opportunity to see what is being done; but as a result of this kind of energy and activity the Coral Gables owners have sold \$7,000,000 worth of property since October 1.

As a beautiful illustration of the character of this development work and of the investments which are being made in these Florida enterprises, we are giving the following story about Coral Gables, an exceptionally interesting illustration of the whole spirit and life and achievement of these Florida real estate and building activities.—Editor Manufacturers Record.

blocks, manufactured in the company's own plants, covered with stuceo and painted in different color combinations. Besides this a business district, wherein all structures are of Spanish design, has two grocery stores, a music store, an electrical equipment store, a candy store, two garages, a printing plant, a cement block plant, a cement lawn fixture plant, two warehouses, a transportation building to house the deluxe Pullman busses used for transportation work in the state and for the regular

half hour schedule maintained between Miami and the suburb; and the Coral Gables Riding Academy.

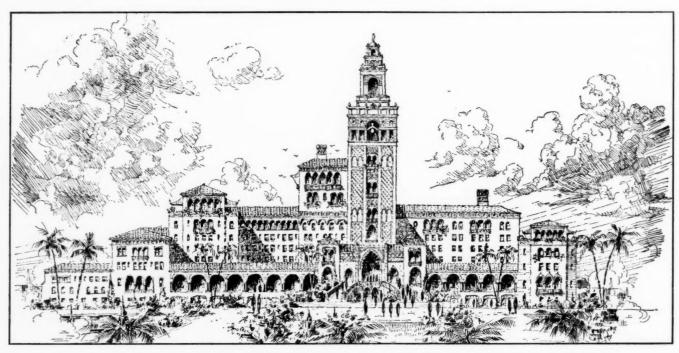
Development along lines of beautification and recreation is one of the striking features. Under the direction of Frank M. Button, formerly of Chicago,—and the landscape architect who planned the famous Deering estate south of Miami at a cost of \$10,000,000,—the entire tract is being landscaped. The pines have been left standing wherever possible, and the fruit trees when in the way of streets or houses are transplanted to the lawns of other houses. Bearing cocoanut



THE GRAMMAR SCHOOL AT CORAL GABLES

palms 50 to 60 feet high have been dug up and hauled, within a radius of 50 miles of Coral Gables, until today a survey shows nearly 2000 trees transplanted in this manner. At the same time a nursery is propagating cocoanut palms,

imately \$50,000 each. Three more are now in the course of construction, the Country Club entrance, the Douglas entrance and the Gladside entrance. The Country Club entrance is being built by Del Merrel, contractor of Coral Gables, and

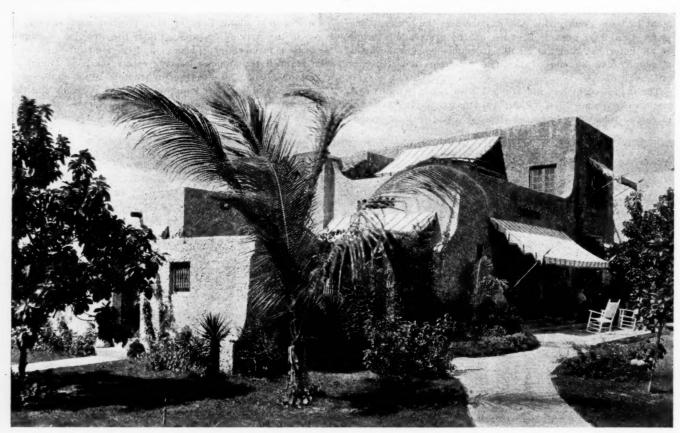


SKETCH OF THE NEW \$1.250,000 HOTEL, THE FIRST UNIT OF WHICH IS TO BE ERECTED THIS SUMMER

royal palms, hibiscus, bougainvillea, bigonia, oleander, and other species brought into this country by the government from India, and other foreign countries in the tropical zone.

Three stately coral rock entrances designed by Denman Fink, New York artist, have been erected at a cost of approx-

the treatment of pergolas, pools, and cloisters covers an area four blocks long in the shape of a half moon. Six plazas of 700 feet cimcumference each have been built at the intersection of important highways, all of them now showing the effects of careful planting by the landscape department.



ONE OF THE MANY FINE HOMES

Situated in the heart of the suburb is a nine-hole golf course and a coral rock country club, erected at a cost of \$100,000. The growth of this club in two years has been so rapid that an addition which will double the floor space is now being added. A total of 16 tennis courts, clay, are placed here and there throughout the suburb, and thirty miles of bridle paths have been run out. The Venetian Swimming Pool, an irregular body of water 200 by 300 feet, designed by Mr. Fink, is constructed of coral rock with a cement bottom. The pool while completed has not been formally opened because the construction of the bath houses and the 25-foot coral rock diving cliff has not been finished. This contract is being carried out, at an approximate cost of \$100,000.

The roads have been put in at a cost of \$1,056,000. Coral



ANOTHER STYLE OF FINE HOME

rock is used as the foundation with a base of 12 to 14 inches and finished with rock sized 2 inches by 4 inches. The roads are then rolled and watered and re-rolled. As a finish they are oiled with a heavy asphalt base fluid and sanded with a sea grade sand. Within the next six months 35 more miles of paved roads are planned.

The sidewalks are 5 to 11 feet wide in the residential district and 10 to 11 feet wide in the business districts. The basic material is native rock and cement, carrying a mixture of six and one in the base and one and one half for



SKETCH OF \$250,000 COLLEGE FOR YOUNG WOMEN

the finish. The cost to date is \$473,000 and plans for the next six months will add 20 more miles necessitating an additional expenditure of \$118,272.

Under construction at present is a \$50,000 postoffice and \$60,000 bank designed by W. C. De Garmo, architect, of Miami. These two buildings will appear as one unit with an arcade running around the four sides and separated in the center by the public patio.

Construction this summer calls for the erection of a 350 room and bath hotel to cost \$1,250,000, plans for which have been prepared by Martin L. Hampton, architect of Miami, who made a tour of Spain last summer gathering material for Mr. Merrick. The feature of this hotel will be the Giralda, or bell tower, copied from the famous tower on the Cathedral of Seville in Spain.

Mr. Hampton has also prepared plans for a \$250,000



CORAL GABLES COUNTRY CLUB

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CORAL GABLES INN

country club building, which with the hotel will overlook the 18-hole golf course now under construction and which will be ready for play next season.

Plans for the Coral Gables Congregational Church have been prepared by Kiehney & Elliott of Pittsburgh, Pa., and



A CORNER OF LE JEUNE PLAZA

Miami, and have been approved by the church board. Erection of this edifice is to start as soon as bids are in.

The Sisters of St. Joseph of St. Augustine, Fla., who purchased land in the suburb last season state that they will start construction of the first unit of a \$250,000 College

for Young Women. W. C. De Garmo of Miami has prepared the plans.

The designing of the homes in Coral Gables and all of the business establishments to date is the work of H. George Fink, architect, of Miami, who toured Spain and Cuba and Mexico for Mr. Merrick before the enterprise was launched. Construction of buildings up to this time has been done by the Coral Gables Construction Co., J. W. Ricketts, general manager, and very little of the work has been let to subcontractors. However, the growth of the suburb has been so rapid that many homes and store buildings are now under course of construction by individuals, being carried out along the usual building lines. Of worthy note here is the fact that building restrictions are such that plans must first be submitted to Mr. Merrick for approval. This is done in order that the Spanish motif may prevail throughout, and that the color of the stucco will not clash with the surroundings and that so much imported Spanish tile is used on the roof.

In the Douglas section two apartment houses will be erected this summer. A. B. Wade, architect, of Miami, has designed a \$175,000 apartment house and bids are now out on this. Kiehnel and Elliott have designed a \$250,000 apartment house and this is now being prepared for bids.

During the past season, since October 1, 111 houses have been built at Coral Gables of cement blocks, stuccoed. Thirtyfour more houses will be started within two weeks of the time this article is written.

Preliminary plans for a concrete stadium seating 10.000 people have been prepared by Mr. Fink for Mr. Merrick and have been approved.

Champion Fibre Control Passes to Ohio Company— To Install Additional Facilities.

Control of the Champion Fibre Co., which operates a large paper mill at Canton, N. C., has been acquired by the Champion Coated Paper Co. of Hamilton, Ohio, which will install additional facilities. The purchasing company advises the Manufacturers Record that it will add at once an additional Fourdrinier paper machine and an additional finishing room with necessary cutters, trimmers and supercalenders.

When operating at full capacity it is stated that the Champion Fibre Co. employs about 1200 men; this force will be materially increased.

Research in Modern Industry.

AN INTERVIEW WITH DR. JOHN E. TEEPLE, TREASURER OF THE AMERICAN CHEMICAL SOCIETY.

By RICHARD W. EDMONDS.

"So intricate and far-reaching is the ramification of chemistry throughout all our industry that it would be difficult if not impossible to say where the dependence of industry actually begins or leaves off," said Dr. John E. Teeple, Treasurer of the American Chemical Society, one of the leading chemists of the country, in discussing the importance of research work in all industrial operations.

Continuing. Dr. Teeple said:

"For foods we are dependent upon agriculture, and modern agriculture is very dependent upon fertilizer, which is a chemical product. For the correct application of our fertilizers again we are dependent upon chemical research, and for the best methods of preparation of many of our foods we are likewise dependent upon chemical research. Fertilizer manufacturers along with all other manufacturers are dependent upon the metals, which are dependent upon research, chemical and otherwise. Metallurgists and chemists are dependent upon glass for their laboratory equipment, and glass is a chemical product. The glass manufacturers in turn depend upon geologists and chemists. And so it goes interminably, until we return to our starting point and branch off on another tangent loop. It is squarely upon research that they all depend for their progress."

In this interview Dr. Teeple was seeking to impress upon readers of the Manufacturers Record the supreme importance of research work, especially in chemistry and its relation to industrial development. There are vast resources in the South for the creation of many lines of industry which cannot be utilized to their full extent except through the tireless research work of chemists. Probably no other section of this country needs the research work of the chemists to such an extent as does the South. The progress already made in that section through chemistry is merely indicative of what will be done when every industry in the South devotes adequate research work to chemical problems.

There should be research work on a large scale in all of the ramifications of the cotton industry. This has never been done on a scale commensurate with the magnitude of cotton, from the time the seed is planted to the end of the finished product. Much has been accomplished, but much more has been accomplished in other lines by chemical research. This applies with equal force to the naval stores industry and is practically true in every other line of industry.

Continuing his discussion of this matter of research work. Dr. Teenle said;

"As a chemical engineer I am naturally more thoroughly acquainted with, and more deeply interested in research in chemistry than in any other field, but no chemist fails to realize that research is as vitally necessary to progress in electricity, in mechanics, in advertising, in sales methods or in any other field of endeavor as it is to progress in chemistry. If I talk more about chemical research and give more examples of the results of chemical research it is only because, as I said, I am more intimately acquainted with my own particular field.

"The chemical industry now ranks fourth in the value of its products in this country, being outranked only by food, iron and steel and their products, and textiles. In 1919 the total value of the strictly chemical products of our industries was \$6,000,000,000, as compared with a value of only \$750,000,000 in 1899; or exactly eight times as great. In addition, each of the industries named above has a very definite chemical basis, so much so, in fact, that in some of their branches

it would be difficult to decide whether or not to call their products chemical. Six groups of our manufactures that have a very definite chemical basis—textiles, iron and steel, leather, glass and ceramics, metals and metal products—bave a total annual output valued at \$33,000,000,000,000, and over half of the total manufactures of the country, with a total annual output valued at \$62,000,000, are dependent upon chemistry.

"The degree of our industrial civilization depends absolutely upon our ability to supply our ever-increasing wants from an ever-diminishing supply of natural resources. Only by research into the nature of our surroundings do we learn their latent possibilities, and by further research we learn how to fashion to our pleasure intricate and wonderful products that do not even remotely resemble their origin. By research, in other words, we are able to take up the work where nature unaided leaves off, and from her raw materials fashion products for which we would otherwise have to go to the ends of the earth, and even in many cases products that nature never makes. Glass, as we know it, is a purely chemical product and has no existence in nature.

"Organized research as a part of manufacturing operations is a new thing in the world. Fifty years ago it scarcely existed. Before that time there had been development and progress, but on the part of manufacturers it was accidental, sporadic, wildcatting, unorganized and unsystematic.

"The development was mainly along two lines. Either a bright man in the operating department had an idea which was developed into practice, or a rank outsider had an idea or process which he persuaded the company to buy; in either case progress was slow and haphazard.

"Now this haphazard development can go on well enough where competition is not keen, where no other corporation in the particular field is doing organized research work, or where the subject is not too highly technical. So long as improvements consist of more or less crude devices whose general principles are well known, or slight changes in processes where the process is well known, it may still be safe to depend upon the operating man or the outsider for completed improvements. But where competition is keen, or where the process is highly technical, the old-fashioned methods will no longer suffice, and the company that tries to depend on them will not survive, for organized research is playing too large and powerful a part in modern industry.

"There are over five hundred research laboratories of industrial establishments listed in a recent bulletin of the National Research Council and this list is still decidedly incomplete, but it shows an awakening on the part of manufacturers to the importance of research, especially where physics or chemistry is involved. They must direct it themselves or die of dry rot.

"The General Electric Company, for example, keeps in Schenectady probably 150 trained men with numerous other employees whose entire time is spent upon research; and not merely research directly connected with the manufacture of motors, generators, lights and switchboards. Their work goes into fundamental scientific researches on intricate physical and chemical problems. There is no possibility that this corporation could have attained or maintained its present position or built up its present earning power without this organized research. It is safe to say that the values produced by its research department are greater than the total value of all its fixed assets. If all its fixed assets were destroyed

they could be speedily replaced; if the whole output of its research department could be destroyed twenty years would not suffice to replace it.

"Still more highly technical is the work of the Western Electric Company where 1575 technically trained men devote their whole time to research. Had we depended on haphazard suggestions of operating men and outsiders the telephone and other means of communication would not have reached their present-day perfection for a thousand years.

"The General Motors Corporation keeps four hundred men on research, not simply on how to make an automobile but on fundamental physical and chemical problems as well, that have any bearing on operating one.

"In general no other industries are so highly technical or so intricate as chemical industry. In no other field can so little assistance be given by the untrained mind. True, the patent office is kept busy with applications of half-baked or unbaked chemists, and they develop wonderful "processes," and organize chemical companies and write chemical "literature" for stock-selling purposes, but in the long run progress comes almost entirely from highly trained minds in organized research departments of industries or in the universities.

"To illustrate: In 1915 there was no potash industry here. We wanted one suddenly and the price of potash was high. In 1918, 44 plants were actually producing potash as a main product (not as a by-product of some other operation). Just one of these plants deliberately organized a research department and kept it constantly at work making a complete and fundamental study of its problems. Today potash is back to pre-war prices or lower and only one of the forty-four plants is operating in competition with France and German potash. This one plant had no particular advantage of location, raw material, patented process, or knowledge of the industry over many others, but its directors had the foresight and its financial backers had the nerve to organize research and put up money for it month after month in good times and in bad ones.

"Advertising agencies appreciate the value of research and are making it a definite part of their work with clients. The study of marketing conditions, the planning of advertising to fit the conditions found, the importance paid to the packing of goods and methods of presentation, the development of plans for the education of dealers, all of these things show that advertising and selling are nowadays being looked at through the eyes of the analyst.

"Now we may be sure that when a new and successful article comes upon the market there is a history behind it. It didn't just happen. A great deal of hard work and study were necessary to take it over the rocks lining the pioneers' pathway. This is true no matter whether the article is a motor car, a safety razor, a tooth paste, or a method for making artificial weather for movie houses.

"This past history can be generalized in about five steps: 1, getting the idea; 2, developing it; 3, protecting it; 4, manufacturing it; 5, advertising and selling it.

"The essential feature of number one, getting the idea, is that the idea be new, that is, new in action. In thought it may be old, very old, but in action it should be new. Developing it may take months or even years. The contact process of making sulphuric acid was known as to its basic ideas for nearly seventy-five years before all the conditions were ripe to make it a commercial success. Whether days or years are required, this work of development must be done.

"If I were compelled to select the most important step of the five I would choose number three and one half, or half way between three and four. It is here that most mistakes are made, and where most money is foolishly spent. An idea has appeared, the owners have hastily developed and protected it, and then they immediately plunge into manufacture, usually incurring an expense very large in proportion to all previous outgo. Selling and advertising are called into play. Quantitites are moved, and then the unexpected fault shows its dragon head.

"I would call number three and a half the 'Stop, Look and Listen' point, the point from which to survey the whole program from every angle, to pick out the flaws and to strengthen the weaknesses and to smooth off the rough places before commercial manufacture begins.

"I am not exaggerating the importance of the 'Stop, Look and Listen' sign. Too much of a consulting chemist's time has been spent in trying to pull enterprises out of trouble because they started wrong, too much of his time has been spent as a coroner or undertaker not to fully appreciate the importance of this stopping place. So many businesses try to beat the engine across the track instead of waiting until the gates are raised. It's bad business to hurry over the crossing and run the risk of a wreck when a little more time would make the passage safe."

In the South we have immense natural resources as yet barely beginning to be explored. The pulp forests of the North are being rapidly depleted, and already the paper industry is turning to the South. It is already realized by a large part of the industry that the South's future in papermaking lies in the reforestation of cut-over lands and the sustained-yield management of those now being cut; but only by research will the industry develop methods of making news-print paper from the resinous Southern pines.

In the past few years research has developed numerous valuable products in the peanuts, sweet potatoes, and in the Southern clays, to mention only a very few, and the work is only beginning. By research alone, patient, dogged, persistent research has this progress been made and will it be continued.

To pour money year after year into a department that for a while produces no tangible results requires vision and courage. The care and the judgment necessary in carrying forward a research campaign are very great. It is not a work to be undertaken without ample means, nerve and patience. It is a work to be undertaken by individual industries, by trade associations and by states. Much of it, such as that along agricultural lines, falls naturally to the states and to the Federal Government, and their accomplishments are conclusive evidence of their value, sufficient justification for largely increasing the activity and the scope of the work.

The scientific progress of the present age is an everyday topic of comment and wonder, and countless articles and essays have been written concerning it. Yet very few—surprisingly few— people realize where lies the chief credit for these much-sung achievements. "Yankee ingenuity" has been made the far-famed father of our American mechanical progress. ("Mechanical rather than scientific," because altogether too much of it has been wholly unscientific, blundering, and wasteful in the extreme.)

We are wonders at adapting available means to desirable ends, and we don't care who knows it. Yet the Germans, who are not popularly credited with any degree of Yankee ingenuity, and with very little of any description, for years led the world in many important mechanical and industrial lines. The German progress, it is pretty generally realized, was made possible by patient, exhaustive scientific research. Another explanation that has often been advanced for their success was their extraordinary capacity for thorough detail work. On the other hand, we in this country have rather prided ourselves that for us the patient, plodding methods of the Germans were unnecessary, for we accomplished our ad-

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vance by means of the loftier and nobler creative talent.

Of course the truth is that the remarkable success of the Germans was based on their great thoroughness applied to research; but they would never have applied that thoroughness, nor backed it up with their millions of marks, had they not firmly grasped an important truth that we were inclined to overlook; namely, the full value of research. On a broad foundation of an immense amount of exact information they built their inventions by patient, persistent labor; and so well did they build that they became the world's classic example of the benefits to be derived from research.

It is probably true that we in this country have shown a greater degree of resourcefulness in adapting our known means to our desired ends. It is undeniably true that an overwhelming majority of our inventions and our material progress has come through the combination of known and proved devices and principles to form new devices and methods. It is equally true that the known and proved devices and principles were learned through research of some kind, however haphazard. The number and importance of our inventions that have been accidents are relatively negligible, and the invention that has sprung full-fledged into perfection without passing through a research or experimental stage of some sort, I believe it is safe to say, does not exist.

An excellent illustration of this truth came to me recently. A self-taught metallurgist,* working in his little machine shop in Brooklyn, experimenting with various makeshifts to replace the costly equipment he lacked, found that he was obtaining remarkable results in his heat treatment of iron castings. He continued using his new method, experimenting with variations of it, and happened to mention his results in the presence of a scientific metallurgist. The man of science was skeptical, but investigated, and found that an extraordinary process had been discovered. Calling in other scientists, they began a little research work to check up and measure the importance and scope of the new process. A few days ago the president of the company that was organized to develop the process told me that he was employing, at the rate of \$100 per day, one of the leading metallurgists of the country for research in connection with the patents alone; and when the business of the patents is out of the way their research will be only begun.

Upon a foundation less broad, probably, than that possessed by the Germans, but by a greater degree of native ingenuity we have built our mechanical and industrial progress. In other words, if our popular belief in our native ingenuity is well founded, we have used such data as we possessed to better advantage than the Germans used theirs. A given amount of material was more valuable in our hands than in theirs. Now here is an extraordinary thing. Reasoning from the above premise, we concluded that we need not spend money to acquire more data. We didn't need more! That which was so valuable to us, so highly productive, we somehow convinced ourselves we didn't need, because we used what we had of it to such excellent advantage!

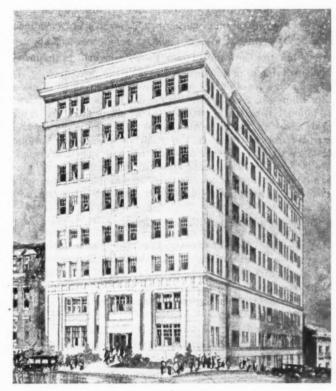
A change is taking place in our reasoning process. We are beginning to see that since scientific data prove immensely more valuable in our hands, we will therefore do well to spend money for the acquisition of more scientific data. Thus we are beginning to reason, but slowly.

R. Q. Etzel, clerk of the police jury of Claiborne parish, Homer, La., advises the MANUFACTURERS RECORD the recent election on \$800,000 road bonds resulted favorably.

Apartment Hotel at Nashville to Cost \$500,000.

The new Memorial Apartment Hotel to be erected at Nashville, Tenn., by the Pritchett-Thomas Co. of that city is estimated to cost \$500,000. As announced in the Manufacturers Record a few weeks ago, contract for steel work has been awarded to the Nashville Bridge Co. Sub-contracts are being handled by the owners.

The building will be of fireproof construction, 52 by 175 feet, 8 stories and basement of steel, light stone and brick



\$500,000 MEMORIAL APARTMENT HOTEL, NASHVILLE.

and will contain 128 apartments. It will be of Doric architecture and will be served by one freight and two passenger elevators. A sanitary method of garbage disposal from the various apartments will be a feature. Asmus & Clark of Nashville, are the architects.

Standard Gas & Electric Co. Report.

The annual report of the Standard Gas & Electric Co., for 1923, H. M. Byllesby, president, has been issued, showing very satisfactory progress for the year. Net revenue was \$5,103,425, as compared with \$4,652,126 for the next proceding year, and gross earnings for the operated public utilities companies totaled \$46,165,533 and their net earnings were \$18,711,033. Increase in gross was nearly 934 per cent and in net nearly 161/2 per cent. The construction budgets of these properties for 1924 are estimated at an aggregate of \$32,672,000, which represents additions and extensions to serve increased demands. Construction will be done under the direction of the Byllesby Engineering & Management Corporation that is owned by the Standard Gas & Electric Co. New construction last year required an expenditure of \$31,471,106. The number of communities served has increased from 665 to 841 and their total estimated population from 2,375,000 to 2,770,000. The total number of customers served increased from 570,716 to 686,568. Included in this system are the cities of Mobile, Ala.; Louisville, Ky.; Fort Smith, Ark.; Tulsa, Muskogee and Oklahoma City, Okla., and many other communities also in the South, besides very many others in the West, the Northwest and on the Pacific coast.

^{*}An interesting monograph on the Schaap Process for the heattreatment of iron castings is given by Prof. Bradley Staughton in the Iron Age, January 3, 1924.

The Allied Power Companies and Muscle Shoals.

Washington, April 24.

The Associated Public Utility Power Companies of Tennessee and Alabama have addressed a letter to Senator Norris, Chairman of the Senate Committee on Agriculture and Forestry, calling attention to their proposals in connection with the power plants of the Government at Muscle Shoals and the manufacture of nitrogen and fertilizer and stating that they are ready and willing to discuss it or any modification of its terms with the committee or any reasonable program that the Government may finally conclude to adopt.

There is nothing indeterminate about the provisions of the offer for the lease of the water power. They agree to maintain Plant No. 2 ready for instant use in an emergency with an annual capacity of 40,000 tons of fixed nitrogen. They also agree to manufacture 50,000 tons annually of fixed nitrogen for fertilizer in the form of ammonium hoshate. izers as well as calcium arsenate for boll weevil control at Plant No. 1. This means that the Government will have available for instant use in time of war plants and equipment with a capacity of 90,000 tons of fixed nitrogen

The letter to Senator Norris follows:

"THE TENNESSEE ELECTRIC POWER COMPANY, Chattanooga. Tennessee, "April 21, 1924.

"HON, GEORGE W. NORRIS, CHAIRMAN, Senate Committee on Agriculture and Forestry Washington, D. C.

"The undersigned on January 15, 1924, submitted to the Secretary of War a proposal in connection with the power plants of the Government at Muscle Shoals. On January 25, 1924, the undersigned together with Messrs, Theodore Swann, Raymond F. Bacon, and Lewis C. Jones, submitted to the Secretary of War an additional proposal to manufacture nitrogen and fertilizer at Muscle Shoals. These proposals are published as House Documents Nos. 158 and 173, 1st session, 68th Congress, copies of which are hereto attached.

"During the hearings before the Military Affairs Committee of the House, Mr. E. A. Yates, on behalf of the undersigned. stated that 'at the option of the Government we would be willing to form one corporation with a capital of \$15,000,000 in cash to take the lease of the Nitrate Plant No. 1 and all the water power projects under the terms of our proposals. to be owned and controlled by Americans.'

"We stand ready to carry out the terms of the proposals and furnish information in regard thereto as may be desired by the Committee, both with respect to fertilizer production and a fifty year lease of the Wilson Dam under the terms of the Federal Water Power Act. If the Government should construct Dam No. 3 we will lease it under like conditions, as explained in our offer, or we will construct Dam No. 3 at our own expense, the Government contributing a portion of the cost in consideration of navigation improvement.

"Our offers were formulated with a view of serving the interests of the Government, the production of fertilizer, and the most advantageous use of excess power through its distribution to the public in the surrounding States. If however, the Committee should desire to consider the Muscle Shoals question on some basis other than is outlined in our proposals or on a basis involving modification of the terms of our proposals, we will be glad to discuss that question at such time as the Committee may desire, holding ourselves ready to conform so far as we are able to any reasonable program that the Government may finally conclude to adopt with respect to these properties. Attached is a summary of the important features of our proposal.

"TENNESSEE ELECTRIC POWER COMPANY, By B. C. Edgar Vice-president.

"MEMPHIS POWER AND LIGHT COMPANY, By T. H. Tutwiler, President.

"ALABAMA POWER COMPANY, By Thos, W. Martin, President."

Summary of Principal Features of Proposal by the Associated Power Companies To Lease and Operate the Muscle Shoals Properties.

"I. Will organize two companies, one with \$5,000,000 capital to manufacture fertilizer and another with \$10,000,000 capital to lease and operate the power projects, or at the option of the Government, will organize one company with \$15,000,000 capital paid in to be owned and controlled by American citizens.

"2. This company will lease Nitrate Plant No. 1 and produce, in response to demand, 50,000 tons annually of fixed nitrogen for fertilizer production in the form of ammonium phosphate, ammonium sulphate, or other concentrated nitro-geneous fertilizers' to be sold to consumers at 8 per cent profit on the cost of production determined by the board appointed by the Secretary of Agriculture.

"The company will maintain Nitrate Plant No. 2 in standby condition for immediate production when required. of 40,000 tons of fixed nitrogen for explosives and munitions

of war.
"This would provide an aggregate capacity of 90,000 tons annually of fixed nitrogen available for war purposes

3. The company will lease for 50 years, under the terms of the Federal Water Power Act, the power projects and pay as rental therefor 4 per cent of their cost, including \$17,000,000 expended from pre-war appropriations on Wilson Dam. If the Government should construct Dam No. 3 the company will lease it under the same terms or it will construct Dam No. 3 at its own expense, as a licensee under the Federal Water Power Act, the Government agreeing to contribute a portion of cost for navigation improvement. the first few years certain specified rental payments will be made during which time the company would expend approximately \$10,000,000 for transmission lines. transformer stations, etc., in order to provide for the distribution of excess power to power users, municipalities, etc., in the surrounding and adjoining states.

"4. The company will, at the option of the Government, purchase for \$4,500,000 the Sheffield steam plant, or it will lease the same at 4 per cent rental on a basis of \$4,500,000 valuation.

5. The company will provide at cost 100,000 horsepower for fertilizer manufacture and as and when required will furnish an additional 40.000 horsepower for that purpose on terms to be fixed by the Federal Power Commission.

"6. The company will contribute \$1,000,000 to be expended under Government direction in electro-chemical research in the interest of agriculture and the national defense.

"7. The company will agree that in event of a violation of

the terms of the lease the same may be forfeited.

"S. Under the terms of the lease the company will be required to contribute to charges for interest, maintenance and depreciation for benefits resulting from headwater improvements whether constructed by the Government or private It is estimated by the engineers that within 25 years such improvements will practically double the primary power at Muscle Shoals.

"9. The company will provide free, such power as may be necessary for operation of the Government locks and navigation facilities.

'10. The company will assume the expense of all renewals and repairs incident to efficient maintenance of the spillway gates the power bouses and substructures, superstructures, machinery and appliances, and maintain the same in efficient operating condition.

"11. Under the Water Power Act the Government will have authority, upon direction of the President, to take over the project when the national safety requires without obligation to protect the company against loss by reason of such taking

"12. Total payments for the power projects for 50 years will approximate \$145.584.000 or in 100 years \$310.624.000 which includes the estimated cost for repairs and maintenance."

Industry and Citizenship.*

By Dr. Henry Mace Payne, Consulting Engineer to the American Mining Congress.

The American Mining Congress, representing 85 per cent of the mining industry, serves as a point of diplomatic contact between that industry and the Government of the United States, presenting the viewpoint of the mining operator in his public relations.

It is at the present time conducting an economic survey of the undeveloped mineral resources of the Southern States, with special reference to transportation, markets, taxation, labor and power. Many industries, such as the manufacture of artificial graphite, the use of silica for abrasives, or of natural graphite for furnace linings, the development of calcium arsenate and the utilization of phosphate salts from waste products, are logical potentialities.

With special reference to the resources of Florida: Your mineral production in 1910 trebled that of 1900; that of 1920 was $2\frac{1}{2}$ times that of 1910; since 1920, however, production has decreased.

The phosphate rock and fullers' earth industries are well known. The ball clays of Lake and Putnam counties and the limestones of Marion and Jackson counties constitute a major portion of your remaining mineral production.

Many of these products, however, are shipped out of the State, only to be repurchased at a stupendous increase in price in the form of manufactured products. Your clays, shipped to Pittsburg and Chicago; and sold at \$8 to \$20 a ton, return to you as electric porcelains, spark plugs, linoleum and paints at 100 per cent to 200 per cent increase. The pottery of East Liverpool and Trenton is, much of it, made from Southern clays. Given a scientific adjustment of state taxes and of freight rates, there is no reason why the same grade of porcelains and pottery should not be made at or near the source of supply, and other productive industries thus added to your resources, with new markets accessible under competitive freight rates.

The market for fullers' earth is affected by the importations of the English product. In this, as in manganese, graphite, chromite and magnesite, the tariff question controls the destiny of the industry. When the tariff ceases to be a political target, and is recognized as an economic problem, these great American resources will become basic industries.

Florida today possesses limestones of wide distribution and excellent quality. The Ocala deposits run from 99 per cent to 99.6 per cent calcium carbonate. Yet 1,200,000 barrels of cement were brought into the State in 1923, and the demand is rapidly increasing. Georgia produces 50 per cent of her requirements, Alabama 40 per cent of hers, while the Carolinas, Mississippi and Florida produce none.

If every cement plant in the South and those now building were to operate at their maximum capacity, there would still be an annual shortage of 3,000,000 barrels in the South.

Since this survey was begun, I am advised that one of the largest cement companies in the United States has definitely decided to build a 700,000-barrel plant in this state. There will still be a deficit of 500,000 barrels per year in your present requirements.

Calcium arsenate, extensively used in the fight against the

boll weevil, requires the same grade of limestone as does cement. The white arsenic may be purchased as a by-product of the great copper and silver mines of the West. Alabama and Louisiana have invested \$1,100,000 in chemical plants near their great limestone deposits to supply their cotton growers with calcium arsenate. Mississippi, Florida, Georgia and the Carolinas have none.

The silica sands of the lake region in Central Florida, now used for concrete and road building, are available for glassbottle manufacture. In no portion of the United States is the soft-drink industry more prosperous than in the South. The Coca-Cola people alone use 800 carloads of glass bottles a year, all shipped from north of the Ohio River. The vast peat deposits in the Everglades and in other areas, as at Palatka and Canal Point, offer opportunities for producer-gas, which, in combination with the silica sands, form the requisites of a bottle industry. The utilization of your widely diversified brick clays will find constantly increasing markets. In Florida, however, as in many other states, brains are an important coingredient with clay, and many excellent deposits of brick clay have failed to find permanent markets, not because of quality but on account of unskilled workmanship. As an illustration of the many opportunities for new industries my attention has been called to the operations recently opened up in Lake county for the manufacture of essential oils, toilet articles, and cosmetics from flowers, oranges, kaolins and tale found on the property.

The St. Lucie county peat deposits run high in nitrogen and are, therefore, of exceptional value as a fertilizer filler. The marl deposits near Blountstown are of similar value.

The beach sands extending from Duval county to Palm Beach county are rich in ilmanite, rutile, zircon and monozite. In common with barytes as a substitute for white lead in pigments, ilmanite production has already reached several thousand tons annually in Duval county alone.

In combination with your porclain clays, zircon is used in the production of spark plugs and high-temperature porcelains.

Sumter county has a vast gypsum deposit, needing only improved roads to make it accessible.

The molding sands of New York and Ohio are rapidly becoming exhausted. The lake region of Florida contains deposits of these, but adequate prospecting has never been done. The demand for white burning clays is ever increasing. Before these deposits can be successfully prospected and opened up, the good roads movement, already under way, must be progressively maintained. Blessed far above the average, with road building materials, sand, gravel and limestone widely distributed, Florida is in better position than most states, to extend her state roads at minimum cost.

The adjoining states to the north are rapidly approaching the saturation point in the development of hydro-electric power, and must look to the interconnected superpower zones of Tennessee and Alabama for relief. But industries in these states will also be expanding.

All hydro-electric resources, therefore, throughout the South should be safeguarded in their development and distribution against exploitation by any individual or corporation, and should be kept under the Federal water power act in order that flood control may be had and the conversion of secondary into primary power may be assured. Florida has numerous small streams with power possibilities worthy of investigation. The Hillsboro and Lacoochee Rivers and another small stream in Jackson county have already been surveyed. The Ocklockonee, Chipola and Santa Fe Rivers

^{*}An address before the Florida Bankers' Association at Orlando, Fla., April 25, 1924.

are now under consideration. Each of these is of inestimable importance to the future industrial welfare of the state.

Where cheap power meets transportation, near the source of raw material, manufacturing centers are created. No country on earth ever got rich shipping raw materials alone.

In general, systematic prospecting and increased support of your Geological Survey, in cooperation with your State Development Board and your local commercial bodies, extension of your good roads and the development of the widest possible range of industries, will increase your markets for farm produce, reduce your taxes and, greater than all of these, will insure your state against the great economic fluctuations which rock those Commonwealths derelict in the recognition of their own great natural resources.

Thus briefly, gentlemen, I have tried to indicate the larger fields which appear to me most promising in your mineral resources. There are certain other problems, however, of national importance affecting all industry. The first of these is transportation. Low-grade commodities and basic materials such as coal, coke, ore, sand, gravel, pig iron, limestone, brick and the like are all bearing a disproportionately high shares of the burden of transportation. These basic commodities move in carload and trainload lots and constitute a steady traffic.

The shipper loads. The consignee unloads. The railroad furnishes train, track and crew. The transportation involves no risk to the railroad. Shipments move in open cars of large loading, hauled by engines of increasing capacity. There is a clear distinction between these commodities and class-rate freight moving in small quantities and usually in "LCL" shipments requiring expedited service, expensive terminals and added personnel for handling.

It is our contention that stimulation of the movement of basic raw material, as the result of rate reduction thereon, would lower the cost of manufactured articles and finished products to the consumer, would increase building and construction throughout the country, would lower the cost of railroad supplies and equipment, and would increase the earnings of the carriers through increased freight tonnage, both actually and potentially.

An illustration of this is the rapidly growing cast iron pipe industry in the district between Chattanooga and Birmingham, where the Louisville & Nashville and the Southern railroads gave a low basis rate on raw materials into the Birmingham district, and a great return traffic has sprung up in the manufactured articles carrying higher-class rates of freight.

It is not the opinion of the American Mining Congress, however, that these rate reductions should be accomplished by attacks upon the transportation act. The railroads are only now emerging from the period of uncertainty through which they have been forced. To attempt to rectify injustice or to equilibrate inequalities by hit-or-miss legislation of the kind, which is at present epidemic, (whether of morals or of finance), is to enulate a quack doctor who, knowing nothing of diagnosis or personal history, attempts to cure an earache by amputating a thumb. The patient continuing to suffer, he next removes an arm. The patient by this time being in excruciating pain, the doctor proceeds to cut his throat, feeling sure that this major operation will accomplish a successful issue. Until the transportation act has had sufficient time to function, hacking at it by piecemeal legislation will only be cutting the throat of the railroads.

As regards interstate motor haulage, the American Mining Congress maintains that freight should be moved over private rights of way maintained by the railroads, rather than over public highways maintained at public expense. More than 1,400,000,000 tons of freight were hauled over American highways by o million and a half motor trucks in 1923. This con-

stituted seven-fifteenths of the total freight haulage of all the railroads of the United States during the same period.

The second great national problem affecting industry is taxation. Federal taxation from 1912-1922 increased 380 per cent, while the population of the United States increased only 10 per cent. Railroad taxation in some instances during the same period has increased 627 per cent. But the mining industry of the United States in the last ten years has been burdened with a tax increase of 1300 per cent, although property valuations only increased 120 per cent during the same period. This condition will continue so long as possible profits from mining ventures cannot be deemed commensurate to the risks involved, coupled with the assessment of high taxes.

The ease with which state and local bond issues could be marketed on account of their tax-exempt features has encouraged state and local governments to engage in an orgy of borrowing and spending. The added tax burdens made necessary to pay interest and to establish sinking funds, and to maintain the multiplicity of existing tax-spending agencies, have been borne in large part by the mining industry. The Treasury of the United States estimates that on January 1, 1924, there were outstanding wholly tax-exempt securities amounting to \$12,309,000,000. These must ultimately be paid out of taxes, both principal and interest.

The productive use of capital in railroads and industries would bring about lower costs of transportation and manufactured products. Vast sums of liquid capital have been withdrawn from the nation's investment pool and diverted from normal channels of industrial enterprise to nonproductive channels, imposing a constant drain upon the basic industries of the country in the form of increased taxes. Moreover, from the economic standpoint, high taxation is compelling the dissipation, by forced exploitation, of our high-grade resources, while lack of capital is preventing the development of low-grade ores and the discovery of new deposits.

Extravagance, including that of government, is one of the greatest curses of the age, and the result of all this taxation is to turn large amounts of capital into tax-exempt securities, whose proceeds are frequently spent with reckless abandon for praiseworthy but impractical objects. Education is a fine thing, but a man does not want to be educated and go hungry, naked and shelterless because he has spent all his money acquiring an education.

The third great problem affecting the future development of industry is the conservation of hydro-electric power, not alone Muscle Shoals, but the great rivers of the Carolinas, Kentucky and Tennessee, and the lesser streams of Florida and Mississippi. This power should be available over the widest area consistent with the latest advances in the economic transmission of power.

The industrial future of the South is dependent upon the efficient use of its water power resources. If the South is to compete on equal terms in the industrial race, these water powers must be developed and become an integral part of a great interconnected super-power zone reaching over the whole area of these states. Avoidance of centralization in restricted areas can only come about through the transmission of electric energy over great distances, as in Canada, California and elsewhere.

In conclusion, the fourth essential in national welfare is restricted immigration. It is better to have a supported government continually functioning, and to be occasionally short of labor, than to have a plentiful supply of labor and have the Government and the Supreme Court continually under attack.

We have discarded the old idea of the melting pot; we have learned that only those should be admitted whose modes of

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thought will harmonize with our fundamental institutions. Our principles of self-government have at least worked better than those evolved by any other nation. Choosing the stock from which our future citizens shall come is not an affront to any nation, but it is a necessary scientific selection of those racial characteristics which will best make up a homogeneous people. But we cannot stop here; there is a duty to those who, already admitted, would destroy our institutions. The alien should be required to register; the anarchist should be deported now. We should lay down the principle that there is no greater privilege in the world than that of American citizenship. Any man who comes must consider it as a special privilege, and must bring with him some qualification to justify his admission.

The other day Secretary Hughes announced that certain Southeastern European Governments seriously objected to selective immigration by the United States on the ground that "Such action would deeply wound the pride of their people and would strongly affect their material welfare." Gentlemen, what of it? Must we add to our asylums and populate our penitentiaries with the slimy scum of Southern Europe in order that their pride may not be wounded? And what about our material welfare? Shall we admit their riffraff in order to spare their Governments the expense of building a gallows on which to hang them?

You say that the feeble-minded, the insane, the criminal are not admitted under our present laws? I reply that 64 per cent of the inmates of our asylums and our penitentiaries are alien and foreign-born, who are being fed and clothed out of your taxes and mine. It cost New York State alone over \$4,500,000 last year to maintain her alien insane, and she is now billing the United States for \$17,000,000 so expended for the care of these hordes who should never have been admitted.

Seven and one-half per cent of the total revenue of these United States is used in caring for these degenerates and dependents of foreign stock. In some states 30 per cent of the taxes goes for this purpose,

Gentlemen, admission to the United States of America is a privilege and not a right. We cannot make a draft horse into a trotter by keeping him in a racing stable. Nor a well-bred dog out of a mongrel by teaching him tricks.

We have today over 900 weekly foreign-language papers, with a paid subscription list exceeding 5,000,000, all advocating "Get all you can and give as little as you can." The intercepted checks from Russia to Foster and others for the purpose of "boring from within" bear evidence in amounts up to \$175,000 as to whether we dwell in a real or a fancied security.

The city of Hamtramck, Mich., with a population of 60,000 and which recently forbade the state police to enter, and instructed its judiciary to try cases in the Polish tongue or leave the bench, is not alone. New York is 76 per cent alien. All New England is 60 per cent. Compare this with seven-tenths of 1 per cent in North Carolina and 8 per cent for the entire South. The holding of over 1000 memorial services for Lenin in these United States and the Herrin massacre speak a language which cannot be misunderstood. Selective immigration with examination at the point of embarkation is the only solution.

And, underlying all of this, is an economic principle applicable alike to the white dollar clerk and the grimy miner; to the captain of industry and the railroad laborer, and that is—"An honest day's work for an honest day's pay."

Duval County Board of Commissioners, Jacksonville ,Fla., has fixed May 28 as the date for selling \$1,500,000 of road bonds, the last installment of a total issue of \$2,550,000.

New \$250,000 Building for Abilene.

Plans are being prepared by the David S. Castle Co., of Abilene, Tex., for a bank, store and office building to be erected at Abilene for Dr. J. M. Alexander of that city, at an estimated cost of \$250,000. The building will be fire-proof. 7 stories and part basement, 75 by 100 feet, the lower



OFFICE BUILDING TO BE ERECTED AT ABILENE.

and mezzanine floors to be occupied by a bank and two stores, while the six upper stories will be devoted to offices.

Construction will be of reinforced concrete faced with brick. The lower story will be trimmed in ashlar limestone and the cornice and ornamental top story in terra cotta. The building will be served by two elevators and an enclosed fireproof stairway.

Lakeland Chamber of Commerce Sets Record by Raising \$50,000 in Four Days.

Lakeland, Fla., April 26.—[Special.]—Lakeland has the world's largest per capita Chamber of Commerce according to the American City Bureau of Chicago, Ill. During a four days' drive for members which just closed, the Lakeland organization raised a total of \$51,000 in this city of 16,000 normalition.

Lakeland holds another record by registering the largest "first day" for cities of this size, raising a total of \$22,500 the day the drive started, according to D. H. McFarland, vice-president of the American City Bureau.

Still another record is believed to have been made in the adding of a big league baseball team to the membership roster of the Chamber. Lakeland is believed to be the only city in Florida, if not in the United States, which has secured the membership of such an organization. The Cleveland Indians of the American League, which teams trains in Lakeland, joined the Chamber of Commerce during the drive.

Temple Offers Bonus for Oil Well.

Temple, Tex., April 26.—[Special.]—Chamber of Commerce, through business men of Temple, is offering a bonus of \$100,000 for the first 1000-barrel oil well brought in within a radius of 15 miles of Temple, east of the Leon River and north of Little River. It is believed that some day Bell county will be one of the oil producing counties.

The offer applies to a 1000-barrel well and smaller wells will be considered in proportion. For a 500-barrel well \$50,000 will be given. The offer holds until August 1, 1925.

SOUTH'S PROGRESS SHOWN IN CONSTRUC-TION ACTIVITY.

Record Set for Industrial and Building Enterprises in Four-Month Period.

Construction activity in the sixteen Southern and Southwestern States continues its upward climb, surpassing all previous records, and reflecting the remarkable development and expansion under way in many different lines of business and industry throughout this entire section. As shown by the number of items published in the Daily Bulletin and in the construction columns of the Manufacturers Record, industrial and building activity in the first four months of this year reached a new high level. From January to April, inclusive, 21,591 items were published, compared with 18,765 notices in the corresponding period of 1923. In 1920, when building activity promised to reach a tremendous volume, 20,645 items were published in four months.

The publication of so large a number of items, which cover every phase of industrial development, bridge and highway construction, erection of buildings of every kind, financial announcements, the voting of bonds by cities, counties, states and districts for public improvements, clearly indicates that the South in expansion and development is setting the pace for the entire country. In addition to the millions of dollars being invested by local interests, Eastern and Northern capital is coming into the section more freely than ever before. From Maryland to Texas the South continues the move forward and upward.

The brief reports covered in the summary herewith include 2551 road, street and paving items, this classification holding first place. Bridge, culvert and viaduct notices total 820 for the first four months of the year, so that these two classifications make up more than 3370 of the more than 21,500 items. This class of work has played a very conspicuous part in the South's construction program since 1921, and indications are that it will continue to form a major part of the expansion, since much of the recent and present development may be directly traced to improved transportation facilities.

Notices concerning miscellaneous enterprises rank second with a total of 1889, covering a wide field of activities not included in any of the other classifications. Construction of dwellings is represented by 1454 items; these are for individual projects costing \$10,000 each and over. School building construction keeps up with activity in other lines, as indicated by the publication of 1266 notices.

The activity in church construction is shown by the publication of 754 items concerning such projects. Hotel and apartment house construction is represented by 724 notices.

In four months 1879 financial items have been published. Included are 1400 new securities announcements, covering bonds voted and sold by municipalities, cities, counties and States. In the same period new financial corporations required the publication of 479 items.

Industrial Plants:

Andre Clini I miles.		Totals for
	Totals for	Jan. to April
	April.	(Inc.)
Bridges, Culverts, Viaducts	. 184	820
Canning Plants		47
Clayworking Plants	. 11	44
Coal Mines and Coke Ovens	. 27	108
Concrete and Cement Plants		45
Cotton Compresses and Gins	. 31	88
Cottonseed Oil	. 3	14
Drainage and Irrigation		44
Electric Light and Power Plants	. 81	358
Fertilizer Plants		15
Flour, Feed and Meal Mills	. 5	49
Foundry and Machine Plants	. 26	90
Gas and Oil Developments	. 80	336
Ice and Cold Storage	. 25	125
Iron and Steel Plants	4	16
Land Developments		855

	Totals for	Totals for Jan. to April
Tumber Buternston	April.	(Inc.) 249
Lumber Enterprises	6	26
Metal-working Plants	27	
Mining		105
Miscellaneous Construction	56	209
Miscellaneous Enterprises	456	1889
Motor Cars, Garages, Tires, etc	163	629
Railways and Street Railways	6	27
Railway Shops, Terminals, Roundhouses,	_	
etc	7	29
Road and Street Construction	661	2551
Sewer Construction	97	357
Shipbuilding Plants	1	2
Telephone Systems	17	74
Textile Mills	38	144
Water-works	105	422
Woodworking	40	155
	2502	9922
	-	-
Association and Fraternal	75	254
	79	315
Bank and Office		
Churches	189	754
City and County	91	354
Dwellings	473	1454
Government and State	10	59
Hospitals, Sanitariums, etc	58	196
Hotels and Apartments	208	724
Miscellaneous	81	300
Railway Stations, Sheds, etc	14	63
Schools	352	1266
Stores	178	639
Theaters	30	83
Warehouses	41	140
	****	0001
	1879	6601
Financial:		
Corporations	111	479
New Securities	357	1400
New Becurities	001	1100
	468	1879
Machinery, Proposals and Supplies Wanted	538	2461
TOTAL	5387	20,863
Fire Damage	161	728
	5548	21,591

Contract Let for \$1,500,000 Superphosphate Plant at Tampa—To Produce 70,000 Tons Annually.

Tampa, Fla.—Contract for the big superphosphate plant to be erected here by the U. S. Export Chemical Corporation of which Lorenzo A. Wilson of Jacksonville, is president, has been awarded to the Tampa Shipbuilding & Engineering Co. of this city. Construction will be under the supervision of the Chemical Construction Co. of Charlotte, which is handling engineering details.

The main structure will be 230 by 112 feet, with a clearance of 48 feet inside. Estimates place steel requirements at 400 tons. The plant will cost about \$1,500,000 and will be equipped for an ultimate production of 70,000 tons of super-phosphate annually. It will be equipped with an electric traveling crane and will house dryers, vats and other machinery.

The company plans to develop about 4000 acres of phosphate lands at Dover, Sidney and in the vicinity of Plant City, and will connect its properties with deep-water terminals of the plant by a 14-mile railroad.

Building Factory to Manufacture Fire Alarms.

Cedar Bluff, Va., April 26—[Special.]—Organized a few weeks ago, the Goodwin Automatic Fire Alarm Corporation, James E. Goodwin, president, is erecting a three-story factory building here. The new company is capitalized at \$150,000 and will manufacture an alarm, invented and patented by Mr. Goodwin. At normal operation the factory will have a capacity of 5000 fire alarms per day.

The A. K. Moore Realty Co. of Greensboro, N. C., has begun work on a new residential development in that city, having started the construction of streets, the installation of water mains, etc. It is planned to erect about thirty residences this year.

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Impressive Report of Alabama Power Company.

A record of accomplishment rarely equaled in public utility fields is found in the annual report of the Alabama Power Company for the year 1923. Cities, towns and industries served by its lines made large demands to meet ever-growing needs and the electric output increased from 607,000,000 kilowatt hours in 1922 to 763,000,000 kilowatt hours, so that the company ranks now either twelfth or thirteenth among central-station companies in the entire country as to output and maximum demand. The demand increased to a total of 238,000 horsepower, with a total connected load of 400,000 horsepower throughout the company's system. Customers now total 65,000 in number served, directly and indirectly, with sundry demand from cities, towns and industries still unserved. To induce new industries into the State and to discover new applications of electricity the company waged an aggressive and successful campaign.

Extensions and additions made to the system during the year included the Mitchell power plant with an initial installation of 72,000 horsepower, which was completed and placed in service. Work was also begun upon three developments on the Tallapoosa River at Cherokee Bluffs and on the upper and lower Tallassee hydro-electric development. A number of operating properties were also acquired, among the more important being the electric, gas and railway utilities serving Montgomery and Tuscaloosa. The company also bought the Government's interest in the Warrior reserve steam plant at Gorgas and, besides, a total of 325 miles of high tension transmission lines were either constructed or acquired, and new substation capacity of 40,000 kv-a was added to the system. Furthermore, service was improved by building new substations, lines and equipment near the larger centers of use.

The Cherokee Bluffs plant when completed will be the largest development of the company, having probably 140,000 horsepower or more installed capacity. The developments near Tallassee are expected to be completed this year. The property additions made during 1923 were done at a cost of more than \$18,000,000, which is represented by securities about 20 per cent of which were bought by people in Alabama, the rest being sold in other States. There are now more than 15,000 security holders of the company, of whom more than 7000 are stockholders. The total of new capital required for expansion and growth was more than twice the amount of the operating revenues for the year. This fact emphasizes the notable accomplishment of the company in placing so large a volume of securities in one year.

The operating revenues for 1923 were \$7,663,294, an increase of 37 per cent as compared with the next preceding year, this large increase being due to the business from existing properties, together with that from properties constructed or acquired. After taking care of oerating expenses, interest and dividends a total of \$546,028 was transferred to surplus.

A total of 83 cities and towns are now obtaining their power supply from the company's system, and during the year there were 85 new industries connected to its lines. The energy demand of these new industries varied from 100 to 4000 horsepower each, and among these industries is the calcium arsenate plant of the Gulf States Chemical & Refining Co., at Montgomery, which will require 1500 horsepower and will employ a new patented method of making calcium arsenate by electrolytic process. It is pointed out that for every dollar invested by a central-station power company to serve industries there is invested by the existing or new industry, as the case may be, not less than \$25 in machinery, permanent equipment, etc.

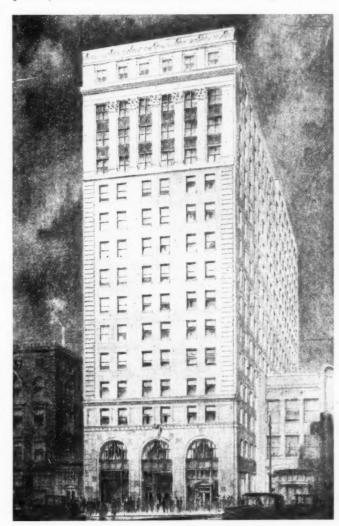
Reference is made to the company's efforts in connection

with the Alabama Polytechnic Institute to develop feasible methods of supplying electricity to farmers. Several experimental lines are being built in different parts of the State and the agricultural experiment station at Auburn, Ala., is to be completely electrified for the furtherance of this aim.

\$1,000,000 Office Building for Charlotte.

Rising from the ashes of the old Charlotte Opera House, the new sixteen-story Johnston Building, to cost \$1,000,000, towers 225 feet above the street line. W. L. Stoddart of New York city designed the building for the Anchor Mills Company, of which C. W. Johnston is president.

It is 62 by 178 feet, fireproof, with limestone front and rear and side walls faced with Kittaning gray brick. The interior is handsomely finished in marble and ornamental plaster, with steel doors and metal trim. Plate glass in hol-



\$1,000,000 JOHNSTON BUILDING SOON TO BE COMPLETED AT CHARLOTTE, N. C.

low metal sash has been used for glazing throughout. Four high speed elevators having a capacity of 2500 pounds each are being installed, one of which will be used entirely for express service beyond the eighth floor. The floor design is especially adapted to combining individual offices into large open spaces, each office floor having 10,000 square feet of rentable space.

The Hunkin-Conkey Construction Co. of Cleveland, Ohio, are the general contractors. Mechanical contracts have been let to the Standard Engineering Co. of Washington, D. C., and the Hatfield Electric Co. of Cleveland. The building will be completed about June 1.

Union Miners Lose Opportunities to Work by Insisting on War-Time Pay.

Charleston, W. Va., April 25.—[Special].—Signing of a wage scale by some operators of northern West Virginia, based upon the Jacksonville agreement entered into last February, has had the same effect in many instances was a strike, since it is impossible in view of existing market conditions and low prices for many producers to operate under such a scale and hence there has been no alternative other than to shut down the mines.

That such would be the effect was predicted by some operators at the time ratification of the Baltimore agreement between representatives of the Northern West Virginia operators and miners was under consideration. It was pointed out that not only in the interest of the operators, but in the interest of the miners as well, the higher wage scale ought not to be agreed to, as it would only work a hardship on the miners by depriving them of an opportunity to earn anything and by affecting their ability to continue payments on debts they might have contracted in purchasing homes.

That is just the way in which the situation has worked out in many instances. Some of the companies in Northern West Virginia have signed the agreement with the union, calling for higher wage scale, but many mine owners have allowed their mines to remain in idleness rather than attempt to operate at a loss. Of course, the most important factor in keeping mines closed down has been the lack of market and the inability of many coal operators to secure orders at any price. At prevailing prices, however, it is utterly out of the question to pay the present union wage scale.

Hence by insisting upon the scale of war wages, the miners' union has really placed an almost insurmountable obstruction in the path of the average miner who desires work, so that the victory achieved at Jacksonville exists only on paper.

A Fine Report on Agricultural Work.

The annual report for 1923 of the agricultural division of · the commercial development department of the Atlanta & West Point Railroad, the Western Railway of Alabama and the Georgia Railroad, E. S. Center, Jr., general agricultural agent, is a most comprehensive and illuminating presentation of prosperity and continued growth in the territory served by those lines. It covers all valuable and useful facts relating to grain, cotton, fruit, peanut, pecan, vegetable and other crops, poultry raising, dairying, the use of fertilizers, soil improvement, the use of calcium arsenate in fighting the boll weevil, farm labor, forestry activities, crop yields per acre, immigration, the use and value of lime, pastures, etc. The department endeavors to extend constructive information concerning the best methods of producing, grading and marketing of all crops, doing much organizing and promoting cooperation. In the pursuit of its work it is in active cooperation with the United States Department of Agriculture, as well as with the state departments of agriculture, in Georgia and Alabama, and with a dozen or more of other interested organizations. During the year the department was represented at fifty-two meetings in various places, these covering every phase of agricultural development. Special trips have been made with educators in the advancement of the work, many articles have been written and published and there has been, in fact, a never-ending round of activities all directed toward the one end-the enhancement of the farms of the section of the South traversed by these several railroads. Not the least of the subjects is that of idle lands, and constant effort is being made to restore to cultivation the abandoned farm acreage which it is said must be settled by farmers from other sections or else by labor that has become engaged in other pursuits because of the boll weevil and other difficulties.

New \$1,250,000 Hotel for Birmingham—Also \$500,000 Addition to the Tutweiler.

Birmingham, Ala., May 26—[Special.]—Plans for the erection in Birmingham of a 13-story hotel to cost approximately \$1,250,000 and of an addition to the Tutweiler hotel, to cost about \$500,000 have been announced by the Dinkler Hotel interests, composed of Louis J. and Carling L. Dinkler and Henry C. Heinz of Atlanta and Pharis Coleman and Frank E. Spain of Birmingham. Actual construction will begin June 1, it is stated.

The new hotel will contain 250 guest rooms, a spacious lobby, office, coffee room, dining rooms and assembly halls. Plans for the structure are by G. Lloyd Preacher & Co., Inc., Atlanta, architects. The new hotel will be located at the corner of Fifth and Twenty-first streets.

Simultaneously with the announcement of this development, the Dinkler interests also made public plans for the erection of an addition to the Tutweiler Hotel, to contain 110 rooms, which will enlarge the Tutweiler to a total of 466 rooms. Contracts have already been closed to begin this work immediately. With the completion of both projects, the Dinklers will control more than 700 rooms in Birmingham and approximately 1800 rooms in Atlanta. These interests now operate the Ansley, Piedmont and Kimball House in Atlanta, the Tutweiler in Birmingham and the Phoenix in Waycross, Ga.

Architect for South Carolina's \$500,000 State Office Building Authorized by General Assembly.

Columbia, S. C.—At a recent executive session of the sinking fund commission. of which M. J. Miller is secretary, Harold Tatum of this city was selected as architect for the State office building, authorized by act of the general assembly. For the purchase of a site and the erection of the building, the commission has authority to expend as much as \$500,000, and has already purchased a site at Senate and Sumter streets.

The building will be designed to accommodate all State departments now occupying rented space, and such of the departments now in the State House as it may be desired to move. A proposal to provide space in the new building for State Supreme Court and the Supreme Court Library, is now under consideration.

Mr. Tatum has been empowered to appoint a consulting architect subject to ratification by the commission.

Contract for Greenville's New \$1,000,000 Hotel.

Greenville, S. C.—Contract has been awarded to the Hunkin-Conkie Construction Co. of Cleveland, Ohio, for the erection of the new \$1,000,000 hotel here for the Greenville Community Hotel Corporation, of which John T. Woodside is president and William Goldsmith, secretary. The structure will be eleven stories high and will contain 210 rooms with bath. Site for the hotel has been practically cleared by the Morris-McKoy Building Co. of this city.

W. L. Stoddart of New York is the architect and J. E. Sirrine & Co. of Greenville are the engineers.

Correction.

In the Manufacturers Record of April 17, referring to the annual report of the Youngstown Sheet & Tube Co., Youngstown, Ohio, the statement was made: "During the third quarter the twelve-hour day was eliminated and wages readjusted to the new basis of eight and ten hours. This materially reduced labor costs."

The statement in the second sentence quoted was made in error. It should have read: "This materially increased labor costs."

Less Cotton Consumed During Half-Year Ending January.

Manchester Eng. April 14—[Special]—In the "International Cotton Bulletin", the official organ of the International Federation of Master Cotton Spinners' and Manufacturers' Association, some important statistics are contained with regard to the consumption, of cotton and the stocks in mills.

With regard to consumption, the figures show that the use of American cotton during the six months ended January, 1924, has been appreciably less than during the previous half-year, on this occasion to the amount of 272,000 bales as against a reduction last half-year of 614,000 bales. It is pointed out, however, that the reduction is caused by the United States and Japan, as Europe has increased her demand for American cotton. Great Britain has increased her consumption of American cotton by only 22,000 bales, but at the same time she has increased her total consumption by 113,000 bales. France is the only European country of importance to reduce her total cotton consumption during the half-year under review. India has used over 100,000 bales more, but Japan and China have consumed less. The United States has decreased her consumption by nearly 300,000 bales.

The statistics relating to stocks of American cotton show that compared with a year ago, there is a reduction of 444,000 bales, but an increase of 667,000 as against the previous half-year. The world's cotton mill stocks by January 31 last year was 4,088,000 bales as compared with 4,851,000 bales in 1923.

The table of the world's spindles shows no important change except that China has now increased her spindleage by 700,000 to 3,380,000, but only 42,000 spindles are under construction at the present time as against 700,000 last July. In Japan 608,000 spindles are now under construction owing to the great destruction caused by the earthquake. Special note should be taken of the increase of over 1,000,000 spindles running on Egyptian cotton in England.

With regard to short time working in the various countries, the "Bulletin" states that Great Britain, France, Italy, Czecho-Slovakia, Belgium, Switzerland, Poland, Finland, Japan, Canada and Mexico have all worked less short time than during the previous six months.

Sanford Celery Crop Brings Record Value.

Not since the World War have net returns to celery growers in the Sanford section of Florida been so large, the Federal market news representative in that district reports. With acreage increased at least 25 per cent since 1921 and average f. o. b. prices around \$2 per crate, total value of the crop probably surpasses all previous records. Fully \$3,500,000 will be received in the Sanford territory, if prices remain high and yield for the rest of the season is satisfactory.

The seven days ending March 29 were the heaviest shipping week of the season, with 424 cars from the Sanford district and 147 from other sections of Florida. The week ending February 9, with 407 cars, and that ending March 8, with 421 cars, were the previous record weeks in the Sanford territory. During January 695 cars were shipped; in February 1278 and in March 1550 cars. Total movement to April 2 from the Sanford section was 3705 cars. With approximately 650 acres yet to be cut and with a yield of 2 cars per acre, shipments may amount to 5000 cars. For the entire State, output to April 5 was 5396 cars, compared with 4773 to the same time last year.

The work of preparing new switching yards north of Jackson, Miss., has been started by the Illinois Central Railroad Co. preparatory to the construction of the proposed \$1,500,000 viaduct, which will be one and one half miles long. It will eliminate all grade crossings within the city limits.

[Asheville, N. C., Citizen.]

"The Most Prosperous."

Here is something to make every North Carolinian realize the greatness which he has helped to achieve.

It is the tribute to North Carolina published on the front cover page of the Manufacturers Record, saying among other things: "It is a fair assumption, we believe, that considered from all angles North Carolina is today the most prosperous State in the Union, making relatively greater agricultural, industrial and educational progress than any other State. This has largely come about by the superb work which has done in the building of highways on a scale not equaled relatively by any other commonwealth."

The Manufacturers Record is the best of all the publications devoted to business and commerce. Its influence is incalculable. It is read, originally and through quotations from it in other publications, by an uncountable multitude of people in every section of this country and in foreign countries. Its accuracy is unassailable. From all of which it is easy to consider what a blazing sun of publicity shines down upon North Carolina when this State is thus heralded with superlatives on the front cover of the Record.

After pointing out that in June, North Carolina will hold a road-building exposition on a tremendous scale for the Pan-American highways engineers and of engineers from Southern States, this editorial announcement continues:

This is the finest plan for awakening a whole section to what road building means that has ever been devised in the United States. Here will be placed on exhibition many hundreds of miles of the most perfectly constructed roads of These in themselves will form an exhibit of various kinds. road work that taken in connection with a display of road building machinery which has never been equaled in this country—and we are quite sure has never been matched elsewhere on earth-will prove invaluable to the whole country. It should be the aim of road engineers, of business people, and others interested in what road building can do for a country, and of all contractors and road building machinery makers in all parts of the land to take part in this ocular demonstration in North Carolina of highway construction in North Carolina of highway construction which has led that State out of depression into abounding prosperity, which has stimulated its educational campaign and caused tens of millions of dollars to be expended for college and university extensions, and which has created a spirit of optimism and enthusiasm that radiates throughout every part of North Carolina, and from North Carolina radiates into every part of this country

It is a remarkable proposition. Its influence for good will be limitless. We extend our heartiest congraulations to North Carolina for having initiated so superb a proposition.

To be worthy of that immediate past, we North Carolinians have yet bigger things to do tomorrow. By recognizing that, we get the full benefit of the Record's advertisement of our deeds and spirit.

Dade County Will Vote on Improvement Bonds of Over \$2,127,000.

Miami, Fla.—Tentative plans have been adopted by the Dade County Board of Commissioners for fourteen improvement projects estimated to cost \$2,127,743 in the aggregate, for which a bond election will be held at an early date. The largest item among these projects is that of widening causeway viaducts, for which \$600,000 will be asked. Others include the following:

For matching Federal aid appropriation and acquiring right-of-way for new Dixie highway, \$300,000; completing Tamiami Trail and widening southeast Eighth street, \$400,000; West Dixie highway, \$225,000; canal highway, \$39,193; Everglades avenue, \$20,800; Red road and bridge, \$30,250; West Flagler street extension and bridge, \$52,500; roads in district No. 4, \$80,000; roads in district No. 5, \$100,000; North Miami avenue extension, \$50,000; fair grounds, \$100,000; armory, \$100,000, and for Snapper Creek bridge, \$30,000.

THE IRON AND STEEL SITUATION

Steel Market Continues Dull.

Pittsburgh, Pa., April 28.—[Special.]—There was a further decrease in steel market activity last week, but the change was of no particular importance, for the market as a whole has been very dull all this month. The steel market is in a transitionary period, while buyers are liquidating stocks and prices are readjusting themselves. Production of steel is declining. Thus everything is in a sort of state of flux, and some new and more settled condition will emerge. The present rate of buying is no criterion for the future, on account of the current liquidation of stocks.

The rate of steel mill operation cannot be estimated at all closely as different mills have been decreasing at different rates. The fairest estimate seems to be that steel ingot production last week was at a rate about halfway between 40,000,000 and 45,000,000 tons a year. The peak rate this year, which was also a new record rate for the steel industry, was a trifle over 50,000,000 tons a year in the first half of March. Thus production has decreased in the neighborhood of 15 per cent. Even at that it is only down to the average rate of last year, and thus there has been overproduction, for it could not be expected that steel consumption would be greater this year than last and the present outlook is that it will be less.

As to buying of steel, the ordinary manufacturing consumers as well as the jobbers have been buying very sparingly of late. They are influenced by three factors. First, deliverles have been heavier in the past two or three months than was expected when the heavy buying was done early in the year, as the steel mills increased production with unexpected facility, and thus buyers have stocks, though these stocks are by no means large in any case. Second, prices have been weakening in some lines and declining in others, making this an inopportune time to buy. Third, business prospects are not as certain or rosy as they might be, and buyers are doubtful as to their requirements in future.

The point should be emphasized that consumption of steel. on the whole, has decreased but little, if at all. Too much notoriety has been given to the slowing down in automobile production, for that industry uses only about 7 per cent of all the steel. Agricultural implement shops have slowed down a trifle, particularly in tractors, and expect further reduction, but they are consuming a good bit of steel just now. As to the freight car shops, they are booked to run quite well into July if not into August. Fabricating shops have a good bit of work on hand, bookings in the four months through March having been 74 per cent, against 76 per cent in the same months a year earlier. Bookings this month will probably total 50 or 60 per cent, against 79 per cent last April, but there is left much work to be done.

The uncertainty as to steel prices is brought out by the fact that there is at the moment no clearly defined market on bars, shapes and plates, which are ordinarily the leaders in the steel market. There has not been enough business lately to show what prices would be done on really attractive orders. On small and miscellaneous orders the market is about 2.30c. The old prices, reached in the advance of a year ago, were 2.40c on bars and 2.50c on shapes and plates. Some observers predict that a market of 2.00c or 2.10c will eventually come out of this situation.

In sheets there is a little more shading as to blue annealed, black and galvanized. An interesting point is that several leading independent makers of automobile sheets have voluntarily announced a reduction of \$5 a ton, from 5.35c to 5.10c. There was little business under negotiation, but the mills felt they would be in poor position to argue should the automobile trade start to buy. In wire products there continue to be

concessions of freight differentials above the Pittsburgh basing prices. Merchant pipe holds firmly in the primary market, while a few jobbers seem to be cutting their prices, to reduce stocks.

Pig iron continues quite inactive. More or less voluntarily furnaces have reduced Bessemer and foundry 50c to \$22.50, valley, for Bessemer and \$21.50, valley, for foundry. Basic iron, quoted a week ago at the reduced figure of \$21, valley, has since sold to the extent of 500 tons at that figure.

Connellsville coke remains very dull, with production declining. Spot furnace coke has gone at down to \$3.60, against a former minimum of \$3.75. It remains in doubt whether any independents will reduce wages next month, as recently predicted. Question is raised whether reducing wages would advantage anyone.

Quiet Market at Birmingham-Production Good.

Birmingham, Ala., April 28.-[Special.]-Pig iron has sold as low as \$22 per ton, No. 2 foundry, in the Birmingham district. Furnace interests are still holding the product at \$23 and in one instance, if not more, \$23.50 is being asked. The low price iron was started by one of the smaller producers, a concern which has a single furnace and at time melts more iron than it has on yards. The trade has been slow the past week, just as quiet as it has been for several weeks now. That is only as to new business. A few orders are being received, practically spot business, in lots as low as 50 tons. On the other hand there is continued activity in the melt of iron in the home territory. Production is also as good as it has been at any time in several months now. There is no iron going to the yards except with one or two smaller companies, while the withdrawals, generally speaking, aggregate more than the amount being sent to the piles on yards.

Orders booked for iron are being filled steadily, but it is estimated that it will be near the end of May before the entire business has been worked off. The small lot trading now may develop into greater tonnages. Recent reports that some of the larger melters of iron in this territory were considering buying again have not materialized. Furnace interests are uncertain as to when there is likely to be a renewal of buying. One prominent interest expresses the belief that on the turn of the month a different feeling will be noted and that keeping the present pace of production will be warranted. Three blast furnaces are in shape for the torch, so the output can be materially increased. No schedule is announced at this time as to blast furnaces shutting down or starting up, but the closing down of iron-makers is expected.

The survey for the week as to the melt of iron in the home territory shows that present activity will continue for quite a while yet. There are orders in sight which, added to those on hand already, will call for a large production in near future. The cast iron pipe trade comes first in the consideration of the activities. The pressure pipe makers are steadily receiving orders, while specifications are being received from all sections. The United States Cast Iron Pipe and Foundry Company will produce more than 5000 tons of large sized pipe for use in Chicago and Milwaukee, with prospects of the tonnage being increased 3000 tons. The National Cast Iron Pipe Company has received numerous orders recently, ranging from 150 tons up to several hundred. The American Cast Iron Pipe Company announces, among other orders recently received, 403 tons from Fond du Lac, Wis.; 131 tons from Des Moines, Iowa; 157 tons from Wilmington, N. C., and 686 tons from Spartanburg, S. C.

The soil pipe and fittings manufacturers are receiving a stronger inquiry for their products and are closing some contracts. There is considerable stock on hand and this is to as-

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be worked off. However, a number of the larger and more active shops are operating steadily and there is need for a considerable quantity of iron. Some of these interests reported the \$22 per ton pig iron offered, but there is no tangible evidence of any large tonnage having been placed.

But little iron has been sold by Alabama furnace interests for third quarter delivery.

The steel works of the United States Steel Corporation subsidiary companies in this district are operating at near capacity. There is a slow market for steel wire and nails and some stock is in the warehouses. The independent company, the Gulf States Steel Company, is operating its open hearth furnace department at 50 per cent capacity and there has been some readjustment of the labor force. Alabama steel producers have felt a little German competition on the Pacific coast. The strike of dock workers in Cuba has interfered slightly with the shipment of iron and steel products to that country.

All work on development at Ensley-Fairfield of the immediate Birmingham district by the Tennessee Coal, Iron & Railroad Company is being pushed, including the new open hearth plant with four furnaces and the new sheet mill, the excavations for the foundation of which are now under way. The elevated railroad, to extend from the Fairfield steel works to the top of Red Mountain where the ore supply is, is being crowded also. All these developments, on which upwards of \$12,000,000 will be expended, will be completed about the summer of 1925.

The coal trade in Alabama shows no improvement. The shutdowns in West Kentucky, Kansas, Oklahoma, Missouri and other States did not continue long enough to bring about a shortage in those sections and make it necessary to get coal from the nearest district. Production is around 330,000 tons a week.

The coke market is holding up well, production being steady and the quotation around \$5.50 to \$6.50. There is no accumulation of coke except with the ironmakers.

The scrap iron and steel market is still dull, the only activity being deliveries on old contracts. The quotations show weakness with a few changes announced.

The Welded Products Company, welding tanks of steel, with capacity from 550 gallons up to 21,000 gallons, has a steady line of orders and many tanks are being produced for oil companies. Forty electric-arc welded tanks of 18,000 gallons capacity, each containing seven tons of steel, are being manufactured for the Standard Oil Co. of Louisiana.

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces. \$22.00 to \$23.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$22.50 to \$23.50: iron of 2.75 to 3.25 per cent silicon, \$23.00 to \$24.00: iron of 3.25 to 3.75 per cent silicon, \$25.00 to \$24.50; iron of 3.75 to 4.25 per cent silicon, \$24.00 to \$25.00; charcoal iron, f. o. b. furnace, \$32.00 to \$33.00.

OLD MATERIAL.		
Old steel axles	\$19.00 to	\$20.00
Old fron axles	20.00 to	21.00
Old steel rails	12.00 to	13.00
Heavy melting steel	14.00 to	14.50
No. 1 cast	20.00 to	20.50
Stove plate	15.00 to	16,00
No. 1 R. R. wrought	12.00 to	12.50
Old car wheels	16.00 to	17.00
Old tramcar wheels	17.00 to	18.00
Machine shop turnings	7.00 to	8.00
Cast iron borings	9.00 to	10.00
Cast iron borings (Chem.)	15.00 to	16.00

Concerning Export Trade in Foodstuffs.

In Trade Information Bulletin No. 216 of the Foodstuffs and Transportation Division of the United States Department of Commerce is an article by Roland M. Kramer, entitled "Transportation in Relation to the Export Trade in Agricultural Products," which will be appreciated by everyone interested in the exportation of grain, cotton, tobacco, etc. Tables are given showing distances and rates from different inland shipping points to different ports East and South. The bulletin is full of detailed information, every one of its seventy-four pages containing material of value.

RAILROADS

President Gorman of Rock Island Urges That Rate Cuts and Wage Raises Cease for a While.

President J. E. Gorman of the Chicago, Rock Island & Pacific Railway Co. says in the annual report to the stock-holders for the year 1923:

"Your interest in all governmental activities affecting the railroads is again urged. Since adequate and efficient transportation is the very foundation of prosperity, every citizen should interest himself to see that the railroads receive the same treatment that is accorded other industries, and that they are not hampered by political agitation and confiscatory regulations.

"The outstanding wrong to the railroads is the failure of the Commission's rate structure to produce revenue sufficient to attract the new capital which is necessary for the transportation industry. The law requires the Commission to fix rates at a level sufficient to produce a return of 5% per cent upon the value of the property of the carriers as grouped by the Commission (the law does not guarantee such a return, as many ill-informed persons assert). But, although the transportation act has been in operation since 1920, even this meager and limited income of 5% per cent has not as yet been earned, because the Government's continuous orders for rate reductions and labor's constant demand for higher wages have kept the carriers' earnings far below the return contemplated by the act. Had rates been so fixed that the Rock Island could have earned 5% per cent on its property investment, as determined by the Government, its surplus income for 1923 would have amounted to \$8 or \$9 a share on the common stock instead of \$1.22.

"The same law, which in practical operation fails to secure a 5% per cent return for the carriers requires the Government to charge the carriers 6 per cent upon money borrowed to enable them to properly function to public needs.

"Another outstanding evil is the effort to fix rates by public clamor for political purposes. We suffered a loss of revenue of \$10,000,000 during 1923 on account of various rate reductions on agricultural products. Yet, notwithstanding this, other applications are pending before the Interstate Commerce Commission for further reductions in rates on grain and farm products, professing to be based largely upon a very laudable desire to help the farmer. We sympathize with this desire, but no one has yet suggested a way whereby what is lost to the carriers from low rates on farm products can be made up through higher rates on other traffic, yet the alternative is to take the money out of the revenues of the carriers which already are inadequate. It is a popular cry to help the farmers, but to do it by destroying the railroads is a poor policy, from which the farmer suffers most.

"It is urged that stockholders, not only as owners but as public spirited citizens, should stand out for the same fair play to railroads as is accorded other industries and insist that since railroad income is limited by law to a mere interest rate on actual property value, that interest rate be made reasonably certain, and that no rate reduction nor wage increase be ordered or allowed until the 5% per cent net has been earned."

Elsewhere President Gorman says: "Competition of motor vehicles, both passenger and freight, continues to make serious inroads upon our revenue. We are giving attention to the possibility of using motor rail cars on our branch lines where the traffic is light, and wherever profitable intend to substitute motor rail cars for steam power."

The following new equipment was placed in service during the year: 60 Mikado type freight locomotives, 20 Mountain type passenger locomotives, 50 steel passenger cars for suburban traffic, 500 coal cars and 500 box cars. Orders were also placed for 250 freight cars, 500 automobile cars and 250 refrigerator cars, and they are now being delivered. Much equipment was also rebuilt making it practically new. In addition to this there have been ordered for this year 10 Mountain type passenger locomotives, 8 steel dining cars and 5 steel baggage buffet cars.

Operating revenues for the year were \$130,403,085; increase as compared with 1922, \$5,316,852; operating expenses, \$104,990,136; increase, \$4,419,210; net revenue from railway operations, \$25,412,949; increase, \$897,642; total railway operating income, \$19,795,313; increase, \$1,464,969; total income, \$21,590,762; increase, \$1,494,878; balance of income available for dividends, \$4,481,502; increase, \$196,123; balance of surplus to profit and loss after dividends on preferred stock, \$915,367; increase, \$197,323.

Missouri Pacific After Gulf Lines.

The Missouri Pacific Railroad Co.. according to reports in New York and St. Louis financial circles, is seeking control of the St. Louis, Brownsville & Mexico Railway, or Gulf Coast Lines, which, as was recently announced, has concluded an agreement for the control of the International & Great Northern Railroad, which plan is now awaiting the approval of the Interstate Commerce Commission. Although it is stated that early last week a statement was issued from the Missouri Pacific offices that no active steps had been taken to acquire the road in question, the reports are generally accepted as having good foundation, especially in view of the fact that such a combination of lines would be right in line with the Commission's plan to consolidate railroads into large groups throughout the country.

It was understood in financial circles that the Missouri Pacific interests had offered to buy 25 per cent of the New Orleans, Texas & Mexico Railway stock on condition that the sellers would also deliver an additional 26 per cent, thus giving the Missouri Pacific the control by having 51 per cent of the stock. One report said that \$120 per share was to be paid for the stock; another report said that \$114 in Missouri Pacific 7 per cent 15-year notes and \$16.50 cash was to be paid.

Interests in touch with the Missouri Pacific's affairs were quoted as saying that such a combination of lines would be a logical outcome of the railroad situation in the Southwest, but that no official announcement is expected for some time. It would place under Missouri Pacific control three of the systems which are included in one of the groups outlined by the Commission, the others in the same group being the Texas & Pacific, the Kansas City Southern, the Louisiana & Arkansas and the Chicago & Eastern Illinois Railroads. The Missouri Pacific, it is further stated, is already in position to obtain control of the Texas & Pacific Railway under the latter's reorganization plan. There is \$15,000,000 of New Orleans, Texas & Mexico Railway stock outstanding of a total of \$25,000,000 authorized, and at the prices mentioned the conclusion of a deal would represent about \$9.000,000.

New Equipment.

Chesapeake & Ohio Railway has ordered 100 Mikado type locomotives, 50 heavy and 50 light, from the American Locomotive Co., and they will be built at the Richmond plant. This is part of the \$28,000,000 equipment budget mentioned last week.

New Orleans Public Service, Inc., has let a contract to the Perley Thomas Car Company, High Point, N. C., to build 55 double truck electric street railway cars, the electrical equipment and air brakes for them to be supplied partly by the Westinghouse Electric Co. and partly by the General Electric Co. Deliveries are to begin in three months.

New President for Norfolk & Western.

A. C. Needles was elected president of the Norfolk & Western Railway Co. last week to succeed N. D. Maher on May 1 when Mr. Maher is slated to retire under the company's age limit and pension rules. Mr. Needles, who is thus promoted from the position of vice-president in charge of operation and traffic, has been with the road for forty-one years, having begun as a rodman in the engineering department in 1883, after which he was successively yard clerk and brakeman, yardmaster, assistant trainmaster, trainmaster, assistant division superintendent, division superintendent, general superintendent, general manager, and next vice-president. He is 57 years of age and a native of Baltimore, Md., where he was educated in the public schools and afterwards attended Swarthmore College. His railroad career has been one of steady advancement. As a result of Mr. Needles' rise Wm. J. Jenks, general manager becomes vice-president in charge of operation, and B. W. Herrman, assistant freight traffic manager, becomes vicepresident in charge of traffic. J. E. Crawford, formerly chief engineer and lately assistant general manager, is now general manager. J. M. Rodgers was appointed general auditor.

A Cutoff to Facilitate Coal Traffic.

The 17-mile cutoff line which the Southern Railway is building from Bulls Gap to Leadvale. Tenn., contract for which was let to the Consolidated Engineering Company, Inc., of Baltimore, as recently reported in the Manufacturers RECORD, will facilitate the movement of coal from the mines in the southwestern part of Virginia via Asheville for consumption in Carolina territory and for export through Charleston. The new line is in effect an extension of the company's low grade line from Moccasin Gap, Va., to Bulls Gap and it will make it possible to send coal trains through via Leadvale instead of breaking them up at Bull Gap into shorter trains and again connecting them up after passing over some heavy grade. Besides, the distance will be shortened 111/2 miles. The maximum grade on the cutoff will be five-tenths of one per cent in the direction of heavy traffic and the maximum curvature will be four per cent. bridges and culverts will be of concrete and steel.

Freight on the Railroads Shows Gains.

Loading of revenue freight on the railroads during the week ended April 12 totaled 881,299 cars. As compared with the next preceding week this was an increase of 19,203 cars, but compared with the corresponding week of last year it was a decrease of 65,972 cars, although it was 181,000 cars more than were loaded in the same week of 1922. Loadings of grain and grain products, of coal, of merchandise and less than carload lot freight, of miscellaneous freight, and of ore, all showed increases as compared with the week before, but loadings of live stock, of forest products and of coke showed decreases. Since January 1 more than 13,300,000 cars have been loaded as compared with 13,100,000 loaded during the same period of last year.

Norfolk & Western to Build More Double Track.

The Norfolk & Western Railway Co., which is maintaining its track to a high standard, will double track ten more miles of line on its low grade route along the Big Sandy River between Naugatuck and Kenova, W. Va. Earnings continue good, the operating revenue during March showing about \$1,000,000 more than in the same month of last year. Gross operating revenues for the three months ended March 31, were \$23,838,785, an increase of \$2,565,000 as compared with the same period of last year; operating expenses, \$18,893,682; increase, \$1,507,460; net operating revenue, \$4,945,103; increase, \$1,057,541. Ratio of expenses to operating revenue was 79.2 per cent as compared with 81.7 a year ago.

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Seaboard Air Line's Rapid Progress in 1923.

"Too great a concentration of railroads into a very few large consolidated systems, such as has been proposed, will not secure the best results to the South," says President S. Davies Warfield of the Seaboard Air Line Railway in the annual report of the company for 1923, and continuing, he states: "Many millions of acres of agricultural lands; great deposits of minerals, clays and material used in industrial commerce await development. Adequate transportation facilities are essential to enable the South to work out its destiny. These facilities can only be obtained by an attitude toward the railroads that will enable them to sell their securities with reasonable assurance to the investor of their ability to meet their obligations. The transportation act of 1920 should not be amended in essential particulars. Harmful legislation affecting the railroads would have much to do with depressing existing business conditions."

It was an exceedingly good year for the Seaboard. Not only were the gross earnings the greatest ever recorded, but there was a surplus carried to profit and loss account at the end of the year amounting to very nearly \$1,400,000, which was in round figures an increase of \$2,550,000 as compared with the year 1922, when there was a deficit of \$1,158,000. The gross revenue amounted to \$52,249,110, an increase of \$6,570,-062 as compared with 1922. Operating expenses were \$40,-342,259; increase, \$4,119,375; net operating revenue, \$11,906,-850; increase, \$2,450,686; operating income after taxes and uncollectible railway revenues, \$9,690,482; increase, \$2,362,-329; gross income, \$10,338,659; increase, \$2,407,974; net income, exclusive of interest on adjustment mortgage (income) bonds, \$2,272,379; increase, \$3,274,996; net income after deducting that interest, \$1,647,379; surplus carried to credit of profit and loss, \$1,394,440; increase, \$2,552,670. The balance sheet shows total assets of the system, \$239,913,485.

President Warfield further notes that the freight car rebuilding program of the company, together with new equipment bought, enabled the system to handle during 1923 a large volume of freight traffic which otherwise could not have been secured. Not only were the earnings increased, but the amount paid for the use of cars belonging to other lines decreased by more than \$1,347,000, although the equipment program was not completed at the end of the year. The number of revenue tons of freight carried increased 2,615,920 tons during 1923 to a total of nearly 15,000,000 tons for the year. This was an increase of 21 per cent. The number of tons carried one mile increased 17 per cent.

The outlook for business throughout the territory traversed by the lines of the Seaboard Air Line System, says Mr. Warfield, is excellent. Favorable prices for cotton, tobacco and other products give increased purchasing power and it is indicated that the movement of fertilizer this year will be very heavy. In Florida the production of vegetables and of citrus fruits is increasing from year to year with unprecedented rapidity, as is the production of crops in other States of the South, promising large gains in this class of traffic during 1924. Passenger business has shown large increases and will probably be heavily augmented this year. Florida and the entire Southern country are now looked to as perhaps the most important territory for rest and recreation, as well as for residence. Excellence of hotels, climatic conditions and other characteristics attract people from other parts of the country to the South, to be either part year or permanent residents. Traffic density on the company's lines has greatly increased and mileage formerly unprofitable is now productive.

In this connection it is especially interesting to note that the gross earnings of the system for the first three months of 1924 reached nearly \$15,000,000 and that net income was

nearly four times as much as was necessary for the interest on the adjustment bonds for the period.

New equipment received and placed in service during 1923 included 23 new Mikado type locomotives, 1726 new ventilated box cars of 80.000 pounds capacity, 1000 new low-side gondola cars of 100,000 pounds capacity, 25 new caboose cars, and 1 dining car. Rebuilt equipment received included 2966 box cars, 1933 gondola cars and 76 phosphate cars. There are 285 cars yet to be delivered on previous orders, but since the first of the present year orders have been placed for 1520 freight cars and 7 passenger train cars, all of which also are yet to be received.

Central of Georgia Report Shows Traffic Increasing.

Operating revenues of the Central of Georgia Railway Company during 1923 showed an increase of nearly \$3,000,000 as compared with 1922 and net income an increase of more than \$1,500,000. Expansion of industry along the lines of the company is indicated by the fact that there was a net increase of thirty-one in the number of industrial tracks on the system and the maintenance data shows that the physical property was well kept up in pace with the progress of commerce and manufacturers. There were 98 miles of main track relaid with new 90-pound steel rail of which 79 miles replaced rail of lighter section. Altogether 137 miles of line were relaid, most of the additional track being relaid with heavier rails than before. There were 75 miles of automatic block signals installed and put in service, making a total of 228 miles of road now similarly protected. Many other improvements and installations made during the year are mentioned in detail in the report. In addition to these increases of facilities there was a net gain of 28 in the number of locomotives and of 1,-335,424 pounds in their tractive power, and an increase of 669 in the number of freight cars with some increase of capacity. There are now 326 locomotives, 302 passenger train cars, and 9202 freight cars, not including company equipment for work on the lines.

The income statement shows operating revenues, \$26,198,846; increase, \$2,912,109; operating expenses, \$21,138,070; increase, \$3,196,674; excess of revenues, \$5,060,776; decrease, \$284,564; operating income, \$3,846,937; decrease, \$254,378; net railway operating income, \$3,944,371; decrease, \$447,713; gross income, \$6,811,961; increase, \$1,612,115; net income, \$3,656,354; increase, \$1,590,542.

A Good Year on the Missouri Pacific.

Although the Missouri Pacific Railway Company did not build any new line last year, it resumed operation of 193 miles from New Orleans to Alexandria, La., under an agreement with the Texas & Pacific Railway and the Trans-Mississippi Terminal Co.; it also obtained trackage rights over 22 miles on the Midland Valley Railroad from Belle Plaine to Wichita, Kansas. In addition to this the annual report says that there were received and put in service 51 Mikado type locomotives. 4 Mountain type locomotives and 10 baggage cars. There are also 25 Mikado type locomotives, 10 Pacific type locomotives, 9 divided coaches, 8 dining cars, 3 cafe club cars, 18 coaches, 12 chair cars and 17 suburban passenger cars, all of steel construction, to be delivered this year.

The corporate income statement shows railway operating revenue for 1923, \$114.607,947; increase as compared with 1922, \$14,686,616; railway operating expenses, \$97,939,965; increase, \$13,281,051; net revenue railway operations, \$16,667,982; increase, \$1,405,565; net railway operating income \$8,893,245; increase, \$646,210; gross income, \$12,204,763; increase, \$1,583,945; balance after deductions—net income transferred to profit and loss account, \$121,345; increase, \$1,535,058 this large gain being because of the fact that there was a deficit in 1922.

GOOD ROADS AND STREETS

\$500,000 IN MISSOURI BIDS.

To Build 53 Miles of Roads and 8 Bridges.

Jefferson City, Mo.—Bids have been opened here by the State Highway Department for the construction of 53 miles of roads and eight bridge projects, the lowest estimates for which reach a total of nearly \$500,000. The work projected and the lowest bidder on each are as follows:

For 3.314 miles of graded earth in Barry county, Kelly & Underwood, Granby, Mo., \$17,242, and also at \$24,803 for 4.951 miles in the same county; 2.758 miles of gravel in Benton county, C. L. Johnson, Warrensburg, Mo., \$15,887; for three sections of grade earth in Cooper county of 4.827 miles, 4.215 miles and 1.89 miles, Haller & Davis, Booneville, Mo., at \$23,234, \$49,761 and \$19,431, respectively; 1.94 miles of gravel in Perry county, Harold A. Worman, Pittsfield, Ill., \$23,792; 4.994 miles of graded earth in Webster county, C. E. Johnson & Son, Buffalo, Mo., \$40,399, and for 4.019 miles of gravel in Clark county, the Dayton Construction Co., Muscatine, Iowa, at \$23,336.

To construct 5 miles of gravel road in Cedar county, the Newton Construction Co., California, Mo., made the lowest bid at \$28,970; 2.301 miles of graded earth in Texas county, Lowing & Lingo, Amy, Mo., \$8295; 1.15 miles of graded earth in Dade county, Critser & Sons, Miller, Mo., \$8536; 1.666 miles of gravel in Madison county, W. A. Reynolds, Marble Hill, Mo., \$21,102; 3.386 miles of graded earth in Linn county, C. P. O'Reilly & Co., St. Louis, \$24,280; 4.553 miles of gravel in Morgan county, Felix Kersting, Jefferson City, \$62,418, and for .634 mile in the same country, Cole Jobe of Clarksburg, Mo., at \$7687; for 1.136 miles of gravel in Monroe county, C. C. Hayward of Shelbiana, Mo., bid \$7938.

Meek & Galbreathe, Chillicothe, Mo., submitted the lowest bid at \$11,193 for building a bridge over Muddy Creek in Linn county, having a 60-foot steel truss span and concrete abutments; for 40-foot concrete deck girder span in Dade county, R. H. Sharp, Reeds Springs, Mo., \$4043; 25-foot concrete deck girder span in Webster county, C. E. Johnson & Son, Buffalo, Mo., \$2663; 35-foot span of same construction in Benton county, Bertman & Menefee, Sedalia, Mo., \$3716; one 180-foot and two 80-foot steel truss spans, with two reinforced concrete piers and bents in Cooper county, Haller & Davis, \$41,374; three 20-foot reinforced concrete slab spans and four reinforced concrete bents in the same county, W. J. Cochran & Son, Booneville, Mo., \$4350; 60-foot steel truss span and two reinforced concrete abutments in Cooper county, Western Bridge Co., Harrisonville, Mo., \$12,374, and for cleaning and painting a 200-foot steel bridge in Franklin county, Thomas & Sampson, Bonnots Mill, Mo., submitted the lowest bid at \$455.

Tennessee Asks Bids on 65 Miles of Road.

Nashville, Tenn.—Bids will be opened May 9 in the office of the State Highway Department on nine road propects aggregating 65.37 miles, including a number of bridges on which bids are to be received separately. The following roads are involved: Gravel surfacing on 9.80 miles in Cocke County; grading, draining and surfacing with bituminous concrete or macadam, 12.62 miles in Warren County; grading; and drainage on two sections in Tipton County of 4.74 and 9.53 miles, respectively.

There will also be 5.23 miles of grading and drainage in Loudon County; 7.35 miles of grading, drainage and bituminous macadam in Putnam County; 5 miles of grading, drainage and cement concrete surfacing in Coffee County; 5.75 miles of grading, drainage and bituminous macadam surfacing in Trousdale County.

Paving Brick Orders and Shipments Increase.

A sharp increase in shipments and orders for vitrified paving brick is shown in the regular monthly statistical report of the National Paving Brick Manufacturers' Association to the Department of Commerce. The tonnage of the companies reporting represents 67 per cent of the total tonnage of the industry.

Unfilled orders, which stood at 55,482,000 the last day of February, had increased to 78,347,000 for the last day of March. Due to heavy manufacture during the winter months, when shipments were light, stock on hand is still well in excess of unfilled orders, the total standing at 117,451,000 the last day of March.

Shipments, which are an accurate gauge of the paving activity of both urban and rural sections, show an increase of more than 4,000,000, the figures being 6,442,000 for February and 10,989,000 for March.

In the Southwest, Texas leads in consumption, with a total of of 1,942,000 for the month, closely followed by Oklahoma, with a total of 1,310,000. Kansas was third with 930.000. Of the Northern States, Ohio leads with shipments of 3,744,000, with Minnesota running second.

Tampa Needs Shell for Road Building.

In a letter to the Manufacturers Record, L. P. Dickie, managing secretary of the Board of Trade, Tampa, Fla., writes: "Much new development and recent annexation of additional territory to the city requires the immediate use of thousands of cubic yards of shell for road and road base purposes.

"There is an opening in Tampa for a firm with the necessary equipment of dredge, barges and tug who can deliver 200 or more cubic yards of oyster shell daily. Private development projects, the city of Tampa and the county of Hillsborough constantly need this material and for months have been unable to secure anything like the quantity required for new development and maintenance of old work. The prevailing price today is \$1.35 per cubic yard. A better price can be secured, for the \$1.35 price is not securing necessary deliverance."

Contracts for Virginia Highways Total 90 Miles in Six Months.

Richmond, Va.—More than 90 miles of road have been let to contract by the State Highway Department of Virginia during the period from October 1, 1923, to April 1, 1924, inclusive. Of the total, over 30 miles will be of concrete or bituminous macadam, 10.30 miles of the former and 20 miles of the latter. Other types include 21.90 miles of gravel, 21.30 miles of soil road, 13.5 miles of sand clay, and 5.20 miles of miscellaneous construction.

In addition, the highway department has also awarded contracts for grading 38.30 miles of road and for the construction of six bridges.

West Virginia Lets Two Additional Contracts.

Charleston, W. Va.—Two road contracts, conditionally decided upon at the recent opening of road bids here by the State Road Commission, have been formally awarded. One project covers 3.7 miles of the Northwestern turnpike in Preston county, for which F. M. Yeater & Co. of Smithfield, W. Va., was awarded contract at \$52,708, and the other, 5.64 miles of the Reedsville-Monongalia road in the same county, for which the Sterling Construction Co. of Akron, Ohio, secured contract at \$74,949.

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Wheeling Invites Paving Bids.

Wheeling, W. Va.—This city will receive bids through J. S. Butts, city manager, until May 3, for paving a number of streets and for other construction, including 1065 lineal feet of 18-inch sewer and 962 lineal feet of 20-inch sewer on Wetzel street, proposals to be submitted on double strength vitrified pipe and reinforced concrete pipe.

Street paving will involve 17,000 square yards on McColloch street, 7000 square yards on Wood, 450 square yards on 43rd, 700 square yards on 42nd and 750 square yards on 39th street, bids to be received on both brick and sheet asphalt wearing surface on a reinforced concrete base. Proposals will also be received for a concrete wall on McColloch street, between 10th and 11th streets, requiring 720 cubic yards, and between 11th and 12th streets requiring 960 cubic yards, and for 1,086,120 repressed paving block.

Plans, specifications, profiles and proposal forms are on file at the office of H. A. Conrad, city engineer.

\$258,000 in Road Contracts in Mingo County.

Williamson, W. Va.—Road contracts aggregating \$258,218, have been awarded by the Mingo County Court here, a portion of which is for joint state and county work. The following roads are involved: grading and draining Marrowbone Creek road, E. C. Price, Huntington, W. Va., contractor at \$42,390, and grading and draining Buffalo Creek road, B. Wellman, Logan, W. Va., contractor, at \$26,320, both projects being county work.

Joint state and county work includes the Naugatuck-Nolan road, for which the Sutton Construction Co. of Ashland, Ky., was awarded contract at \$93,833, for grading, draining and bituminous surfacing, and also at \$95,675 for the same type of construction on the Marrowbone-Kermit road. Holton Cook, Williamson, is the county road engineer.

Seventeen-Mile Alabama Highway to Cost \$600,000.

Clanton, Ala.—Contracts have been awarded by the State Highway Commission, Montgomery, for the construction of 17.45 miles of the Montgomery-Birmingham highway in Chilton county, for which the commission has \$600,000 available. This section will extend from the Shelby county line to Clanton and will consist of grading, drainage and concrete surface.

Speed-Parker, Inc., of Louisville, Ky., were awarded contract at \$412,532 for surfacing; W. A. Taylor Construction Co., Sylacauga, Ala., at \$119,021 for grading, and W. T. Weaver, Collinsville, Ala., at \$22,392 for bridges.

Bids Asked on Greensboro-Newbern Road.

Greensboro, Ala.—Sealed proposals will be received until May 19 by the State Highway Department, Montgomery, for the construction of 9.97 miles of the Greensboro and Newbern road in Hale County. Construction will embrace section A of project No. 141, and project S-5. Separate bids may be submitted on the roadwork and bridges, while the pipe to be used may be double strength terra cotta, reinforced concrete or corrugated metal. Plans and specifications are on file at the office of W. S. Keller, state highway engineer, Montgomery, and at the office of the division engineer at Selma.

Tulsa County to Build Four Miles.

Tulsa, Okla.—Contract will be awarded after July 1 by the Tulsa County Commissioners for the construction of four miles of hard-surfaced road north of Collinsville. The road will connect the Tulsa County system of improved highways with that of Washington County. Its construction will cost about \$129,000, of which \$60,000 will be available from federal aid funds.

Missouri Invites Bids for 47 Miles.

Jefferson City, Mo.—Bids will be received by the State Highway Commission at its office in this city until May 6 for the construction of more than 47 miles of road, plans and specifications for which are on file at the office of the commission and at the offices of division engineers in whose divisions, the proposed work is located. The following projects are involved: Twenty-four hundred feet of standard current retards in Lafayette and Ray counties; two sections of cement and gravel in Callaway county, of 4.981 and 4.297 miles, respectively, on which combination bids will be received, and 1.8 miles of gravel in Ste. Genevieve county.

For 1.250 miles of rock asphalt in Franklin county; 3.120 miles of concrete and earth grade in St. Louis county, for which separate or combined bids will be considered for work on any one or more sections, including grading, culverts and paving, Meramec River bridge and other trestles and bridges; two sections of gravel in Cedar county of 3.453 and 1.074 miles, on which combination bids will be received, and two sections of earth grade in Barton county, of 4.006 and 3.463 miles, on which combination bids will also be received.

There will be 2.835 miles of gravel in Phelps county; 3.625 miles of earth grade in Webster county; two sections in Texas county of 2.652 and 2.509 miles, on which combinations bids will be received; 1.822 miles of gravel in New Madrid county: 1.268 miles in Cape Girardeau county, and two sections of earth grade in Ripley county, of 2.756 and 2.374 miles, on which combination bids will be received. B. H. Piepmeier is chief highway engineer.

Votes \$200,000 for Reservoir—Will Build 1200-Foot Dam.

Stillwater, Okla.—This city has voted a bond issue of \$200,000 to provide a reservoir which will supplement three smaller reservoirs at present supplying the city's water needs. The new reservoir will be located on Boomer Creek, two miles north of Stillwater, and will involve the construction of a 1200-foot dam, with a dyke of the same length. It is estimated that it will cover an area of 225 acres and will have a storage capacity of 650,000,000 gallons.

\$500,000 Bridge in Putnam County, Florida.

Palatka, Fla.—Plans are being prepared by Daniel B. Luten, engineer, Indianapolis, Ind., for the construction of a \$500,000 concrete bridge over St. John's River at Palatka. The structure will be erected by the board of bond trustees for special road and bridge district No. 7, J. W. Hart, secretary, and will replace a 4400-foot bridge. The new bridge will probably consist of a 2500-foot bridge proper and 1600 feet of fill. Proposals will be invited in about sixty days.

El Paso County Contracts Total \$200,000.

El Paso, Tex.—Two road contracts have been awarded by the El Paso County Commissioners at a total of \$200,000, both awards going to the El Paso Bitulithic Co. One is for the construction of the North Loop road, which will be of Warrenite bitulithic to cost \$132,588, and the other for the construction of Womble boulevard, of concrete, at a cost of \$67,412.

Buncombe County Plans Road Work.

Asheville, N. C.—Buncombe County plans to pave two streets in Norwood Park and construct important links in the county highway system this year, funds for which will be obtained through a bond issue of about \$300,000. The road program will involve paving 10 miles of highway and the construction of 30 miles of gravel and sand-clay roads.

Marion County Will Build 55 Miles—Bids Asked in Three Districts.

Fairmont, W. Va.—Marion county plans to build 55 miles of highway in three districts, bids having been invited by the County Court here, of which Lee N. Satterfield is clerk. Proposals will be received on May 14 for permanent improvement of eight sections on six projects in Paw Paw district covering a total of 13.94 miles, including the following: About 1.18 miles of the Rivesville-Parker Run road; 2 miles of Rivesville-Baxter road; 2.5 miles of Baxter-Hoodsville road; 2.5 miles of Hoodsville-Shuman's Run road; 2.5 miles of Baxter-Grant Town road; 1 mile from Wheeling-Fairmont turnpike up Robinson's Run; 1.13 miles from Fairview up Bennefield Fork, and 1.13 miles of Fairmont-Wheeling turnpike.

Bids will be received until May 20 for grading, draining and paving eleven sections on seven projects in Lincoln district, having a total of 15 miles, and on May 22 for twelve sections on seven projects in Mannington district, with a total of 26 miles.

Plan Vote on \$380,000 of Road Bonds.

Clarksburg, W. Va.—Citizens of Sardis district have petitioned the County Court to call an election in the district on \$380,000 of bonds for building roads. It is thought that the court will act favorably and set May 27 as the date. The following roads are slated for improvement: Two and one-half miles of Gregory Run road, \$47,500; four miles, from the Coal district line at the head of branch of Katy Lick Run, up Ten Mile Creek, \$95,000, and two miles of Twin Bridge road up Big Camp, \$47,500.

Other projects include a road from Eagle district line on the Shinnston-Middlebourne pike, near Dola, up Little Ten Mile Creek, exclusive of the portion already paved, for which \$150,000 will be expended: one mile of the Shinnston-Middlebourne pike, up Big Elk Creek, \$20,000, and one mile of the same pike up Mudlick Run, \$20,000.

Notes on Good Roads Construction.

Charlotte County Board of Commissioners, Punta Gorda, Fla., will receive bids until May 6 for building 9.54 miles of road.

Okmulgee County Commissioners, Okmulgee, Okla., have called an election for May 19 on \$400,000 of bonds to build 31 miles of paved highway in the county and 9 miles of gravel, these bonds to be supplemented by state and possibly Federal aid funds.

Wise County, Texas, J. M. Wood, County Judge, Decatur, has awarded contract to E. K. Everhart, Chico, Texas, to build 11.1 miles of rock-surfaced road on highway No. 39, to cost \$120,000. H. R. Smith of Decatur, is the engineer in charge.

Bids will be opened on May 2 by the State Road Commission, Charleston, W. Va., for work on the Nitro-Poca road in Putnam county, and on May 9 for the construction of three miles of the Ethel-Stollings road and two miles of the Huff Creek Junction-Mineral City road, both in Logan county.

The Board of Awards, Baltimore, will receive bids until May 7 for grading and paving with concrete cement, footways as listed in contract No. 76. Specifications and proposal forms may be obtained from the office of the City Register, City Hall. Bernard L. Crozier is the highways engineer.

Leflore County Board of Supervisors, Greenwood, Miss., will receive bids until May 6 for the construction of the Greenwood-Money road provided for by a \$200,000 bond issue recently authorized. The Abbott Engineering Co. of Greenwood, which has made preliminary surveys and estimates of the cost of the road, will supervise construction.

TEXTILE

Three Texas Cotton Mills to Cost \$3,500,000—Plans for Plants at Austin, San Marcos and San Antonio.

Regarding a recent announcement that they have been engaged as engineers for three new cotton mills to be erected in Texas at a cost of \$3,500,000, Lockwood, Greene & Co. of Boston and Atlanta, wire the Manufacturers Record that they are working on development plans for these mills, but details are not yet available. The plants are to be built, according to reports, by the Planters & Manufacturers' Cotton Mill Company in which Major S. M. Ransopher of New Braunfels, Tex., prescident of the Merchants' and Planters' Cotton Mill of that city, is interested. They will be located at Austin, San Marcos and San Antonio, each to be equipped with 10,000 spindles and about 300 looms.

It is stated that arrangements have already been completed for a site at San Antonio and the mill there will be erected at once. This will be followed by the San Marcos mill and later by the Austin mill. Gray goods it is said, will be produced at the San Antonio mill, outing flannels at San Marcos and fine shirtings at Austin.

Will Build Blanket Mill at Swannanoa.

Reports state that construction of a new blanket mill to be erected at Swannanoa, N. C., by the Beacon Manufacturing Company of Providence, R. I., will begin within sixty days. In a letter to the Manueacturers Record the company advises that it has no information to give out, except that it is having plans drawn and expects to begin construction as soon as they are ready.

It is stated that the buildings will be of the saw-tooth type of construction, and that the first unit of the plant will employ from 150 to 200 operatives. Construction will soon begin, it is said on 40 or 50 dwellings.

New Plant for North Carolina Finishing Company.

Yadkin, N. C.—The new finishing plant to be erected here for the North Carolina Finishing Co. of Salisbury, N. C., will be housed in a building 76 by 142 feet, of mill construction. As reported last week by the Manueacturers Record, L. S. Bradshaw of Salisbury, is the contractor. The cost of construction will be \$22,000. J. E. Sirrine & Co. of Greenville, S. C., are the engineers.

To Build 20 Miles of Road and Repair Bridges.

Frankfort, Ky.—Sealed bids will be received by the State Highway Commission here until May 20 for the construction of two road projects aggregating 20.25 miles, and for repairing three bridges. One road will cover a distance of 7.05 miles in Rockcastle county, the work to consist of shaping, constructing drainage structures and surfacing with waterbound macadam, while the other will cover 13.2 miles of grading, drainage and waterbound macadam in Laurel county.

Bridge work will consist of a new floor for a 180-foot steel span over Rolling Fork in Larue county and painting metal work, tightening loose members and connections, painting and new creosoted wood floor for three 180-foot steel spans of Brooklyn Bridge over Kentucky River in Jessamine county, and for new approaches, consisting of five 30-foot steel I-beam spans, creosoted wood block floor and painting 204-foot steel span of bridge over Cumberland River in Bell county.

Plans, specifications and proposal forms may be obtained from the office of Joe S. Boggs, State Highway Engineer, Frankfort. ans 0.

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LUMBER AND BUILDING MATERIALS

Lumber Movement Throughout the Country.

Washington, April 24.—As reflected by comparable reports from 383 of the larger commercial mills of the country, the national lumber movement was about the same, says the National Lumber Manufacturers Association, as for the week before with indications of a slight gain in all three factors of production, shipments, and orders. As compared with the same week of 1923, there was a small increase in production, small decrease in shipments, and a more noticeable decline in orders

The unfilled orders of 263 Southern Pine and West Coast mills were 595,884,446 feet as against 635,476,296 for 259 the week before. Separately, the Southern Pine group, 136 mills, reported unfilled orders as 254,307,535 feet compared with 259,432,755 the previous week; 127 West Coast mills had unfilled orders amounting to 341,576,911 feet as against 376,043,541 for 123 mills a week earlier.

Altogether the 383 comparably reporting mills had shipments of 96 per cent and orders of 87 per cent of actual production. For the Southern Pine mills these percentages were respectively 99 and 93 per cent, and for the West Coast mills 104 and 96 per cent. Of the comparably reporting mills, 362 (having a normal production for the week of 226,177,683 feet) reported production 101 per cent of normal, shipments 99 per cent, and orders 88 per cent thereof.

The following table compares the national lumber movement as reflected by the reporting mills of seven regional associations for the three weeks indicated:

	Past Week	Corresponding Week 1923	Preceding Week 1924 (Revised)
Mills	383	386	387
Production	244,568,453 $234,385,274$	243,315,645 $238,145,847$	243,490,605 $226,596,924$
Orders	211,922,707	230,475,094	209,450,750

The following figures compare the lumber movement for the first sixteen weeks of 1924 with the same period of 1923:

		Production	Shipments	Orders
1924		3,667,188,830	3,686,552,829	3,576,750,501
1923		3,499,593,399	3,960,425,689	3,965,179,539
	Increase			
1924	Decrease		273,872,860	388,429,038

The mills of the California White and Sugar Pine Associa-

tion make weekly reports, but they are not comparable in respect to orders with those of other mills. Consequently, the former are not represented in any of the foregoing figures. Fourteen of these mills reported a cut of 12,550,000 feet last week, shipments of 9,336,000, and orders of 9,187,000. The reported cut represents 30 per cent of the total of the California pine region.

The Southern Pine Association reports from New Orleans that of the 85 mills reporting running time, 68 were on full time, including 11 reporting over time, 2 were shut down, and the rest operated from one to five days. For 136 mills shipments were 0.76 per cent below actual production, current orders 7.35 per cent below actual production, and 6.64 percent below shipments. New business increased 1.4 per cent over that of the previous week, shipments increased 10.5. per cent, and production increaed 3.7 per cent.

The Western Pine Manufacturers Association of Portland, Ore., reports production practically the same as for the preceding week, and somewhat larger than for 1923. Shipments were noticeably larger than the week before, and somewhat larger than in 1923. Orders currently gained a little, and were slightly behind those for last year.

The week shows an important gain in production for the California Redwood Association of San Francisco, and some gain in that respect over the corresponding week of 1923. Shipments almost doubled those of last week, though less than in 1923. New business fell off from the preceding week, and was also less than in 1923.

The North Carolina Pine Association wires from Norfolk. Va., that with 43 mills reporting, as compared with 49 the week before, production decreased about 25 per cent, although somewhat more than in 1923. Shipments declined currently in the same proportion as production, but were 50 per cent larger than in 1923. New business fell off about 30 per cent from the preceding week, but was 40 per cent larger than in 1923.

The Northern Hemlock and Hardwood Association, of Oshkosh, Wisconsin, reports practically the same softwood production as the week before, but noticeably less than in 1923. Shipments were somewhat less than for the previous week, and also less than in the comparable week of 1923.

LUMBER MOVEMENT FOR SIXTEEN WEEKS, AND FOR WEEK ENDING APRIL 19

	duction 924	1923	Shipments 1924	1923	Orders 1924	1923
Total	166,977 $743,882$	$\substack{1.194,826,844\\69,163,420}$	$\substack{1,177,083,604\\77,151,365}$	$\substack{1,287.512.165\\72,583,056}$	$\substack{1,153,041,063\\72,026,145}$	1,323,950,615 73,716,832
West Coast Lumbermen's Association: 1,592.7 Week (127 mills) 96,5	758,335 $913,914$	$\substack{1,526.159,795\\109,966,714}$	1,618,777,920 100,854,711	1,759,596,284 111,341,912	$\substack{1,533,685,840\\92,961,562}$	1,745,634,51 7 106,670,610
	422,000 559,000	$307,822,000 \\ 34,215,000$	412.891.000 27,898,000	410.022,000 26,291,000	407,700,000 20,900,000	401,000,0 00 22,300,000
	709,000 976,000	$\substack{124,256,000\\9,054,000}$	$\substack{119,744,000\\8,355,000}$	$\substack{143.012.000\\9,495,000}$	120,037,000 5,936,000	162,071,000 7,284,000
	847,318 437,957	$\substack{133,488,710 \\ 7,459,711}$	$\substack{128,326,505\\9,176,298}$	$\substack{144,356,452\\6,029,779}$	119.161,598 7,924,000	130,905,407 5,277,652
	308,000 677,000	37,091,000 1,134,000	35,835,000 1,317,000	40,311,000 2,426,000	31,142,000 1,118,000	38,576,000 2,830,000
	$010,200 \\ 717,700$	119,770,050 9,836,800	$\substack{136.636,800 \\ 7,292,900}$	$\substack{126,684,788\\7,099,100}$	153,586,000 10,237,000	155,356,000 9,517,000
General Total for 16 weeks: (Softwood)	221,830	3,443,414,399	3,629,294,829	3,911,494,689	3,518,353,501	3,917,392,53 9
Northern Hemlock & Hardwood: (Hardwood) (16 weeks) 82,4	967,000	56,179,000	57,258,000	48,931,000	38,397,000	47,787,000
	307,000 568,453	243,315,645 In totals, because	228.112,000 234,385,274 "orders" not rep	238,145,847	211,922,707	230,475,094

New business declined as compared with the previous week, and the same week in 1923.

The Northern Pine Manufacturers Association of Minneapolis, reports a current gain in production of about 25 per cent, and about the same gain over this week last year, with shipments about the same; new business increased nearly 50 per cent over last week, and about 10 per cent over last year.

The West Coast Lumbermen's Association wires from Seattle that the production of 127 mills reporting for the week ending April 19 was 11 per cent above normal, while new business was 4 per cent below production, and shipments. 8 per cent above new business.

Commendations, Kicks and Comments

Keeping Up the Standard.

C. W. MAYBERRY, Taylorsville, N. C.—I want my name to remain on your mailing list as long as the paper comes up to the standard it has maintained for the past six or seven years I have known it.

Wants Henry Ford and the League of Nations.

BAKER-DRYER LUMBER COMPANY, Birmingham, Ala.—Have decided we just could not endure reading any longer your opposition to Ford and Muscle Shoals and opposition to League of Nations. Please discontinue.

We Are Glad To Know Our Good Works Exceed Our

S. H. GAITSKILL, McIntosh, Fla.—While I enjoy reading the Record and get quite a lot of desirable information, my main reason for subscribing is the work you are doing for the South and I feel it is my duty to sustain you and aid you, even if it is in a small way. I feel that all information given by you is perfectly reliable. While I do not agree with all of your ideas I feel that the good you do far overbalances any mistakes that you make.

Appreciated Commendation from a Quarter Century Subscriber.

THOS. H. BETTY, President, BETTY & SON LUMBER CO.: Enclosed you will find our check for \$10.00 renewing the MANUFACTURERS RECORD for two years.

The writer has been a reader of the MANUFACTURERS RECORD for over twenty-five years and we look forward to its weekly visitation with a great deal of interest, as we know that when it does come it will contain good reading which seems to improve every week. We particularly enjoy the editorials and feel that in the editor of your paper we really have a friend in the South.

A Suggestion to Business Men.

H. R. POWELL & Son, Realtors, Augusta, Ga.: We were much disappointed when we called at the news stand on March 14 for your issue of the 13th and found they had sold out, and the same thing happened to us last week, so we know now that the only way to be certain about getting your most valuable periodical is to subscribe for it, and we are convinced that all business men should take it; in fact, we fail to understand why all business men do not take it. We suppose it is because they have never read enough of it to know what it stands for.

Enclosed please find check for \$6.90 for one year's subscription and the two last issues. Kindest regards and best wishes for you and your wonderful work for the South.

We Asked a Question-We Did Not Make An Assertion.

H. M. Cross, Brookline, Mass.: What amazing fool stuff you allow to get into your columns!

What a crazy idea about God, that to prevent war between Japan and the United States he could do no better than to make the earth-quake and its attendant horrors!

Unable to influence the minds of the Japanese leaders the best he could do was to kill some hundreds of thousands of Japanese women and children!

And you would have people worship and pray to such an imbecile and wicked God!

I think you owe an apology to your readers for making such a suggestion about an all-powerful and good God.

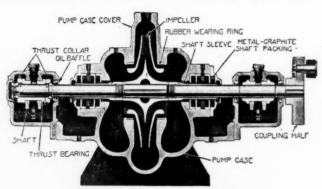
Rev. Massee of Tremont Temple, Boston, in a sermon said God could not have done such a bad thing as make that earthquake, and so the Devil must have done it, and unless God had stopped him he would have destroyed all China and Japan.

MECHANICAL

Centrifugal Pump With New Features.

The new Moore centrifugal pump which is illustrated herewith contains, it is stated, all points of excellence heretofore found in successful pump design and in addition it overcomes two troublesome characteristics with which operating engineers have to contend. Two prominent features in the pump are an improved rubber sealing ring on the impeller between the suction and the discharge chambers, and a metal graphite packing ring in the packing glands, instead of flax packing. Concerning this latter the manufacturers say:

"The average user of a centrifugal pump is usually in search of high efficiency. The shop test on a pump is conducted under ideal conditions, with the packing gland nuts loosened, so that the flax packing in the stuffing box will not cause a drag on the shaft, but after the pump is installed



CROSS SECTION VIEW OF PUMP

somewhere for regular operation in a plant any workman there may pack the stuffing box as tight as possible until there is no leakage. This exerts a powerful pressure between the flax packing and the shaft and consequently lowers the efficiency of the pump. Moreover, too great tightening of the packing often stalls the prime mover.

"In this pump the Moore metal graphite packing rings rest lightly upon the revolving shaft. There is no binding effect to retard rotation. The new ring is in no way affected by hot or cold water and once it is properly fitted leakage is reduced to a minimum. The life of this packing is practically unlimited when the shaft runs without eccentricity; it means that the shop test efficiency of the pump will always be maintained in service."

It is further remarked that these pumps are horizontally split, perfectly balanced, use brass protected chrome nickel steel shafts, and are built to limit gauges in a shop equipped for and accustomed to precision work. They are built single and multistage, for motor, turbine, or belt drive. They are made by the Moore Steam Turbine Corporation, Wellsville, N. Y.

To Build Barreling Plant at Texas City.

Texas City, Tex., April 26—[Special.]—E. W. Marland, president of the Marland Refining Company, Ponca City, Okla., announces the addition of a barreling plant for the company's export terminal at Texas City. Work will start within a few weeks. The capacity of the plant will be 2500 barrels daily. It will be used for barreling lubricating oils for shipment to Europe. Previously the company has shipped barrel goods from New York.

The present bulk oil terminal of the Marland Company at Texas City is receiving 1000 tank cars of oil monthly by rail from Oklahoma properties of the company.

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CONSTRUCTION DEPARTMENT

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained. Further facts about any incomplete or incorrect item reported in these columns are always appreciated.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

Bridges, Culverts and Viaducts

Ala., Abbeville-Details under Road and Street Construction.

Ala., Clanton-Details under Road and Street Construction.

Ark., Little Rock-Board of Commrs., Little Rock-Hot Springs Improvement Dist. of Pulaski, Saline and Garland Counties, let contract to Leroy Johnson, Joplin, Mo., at \$16,106.87 for 4 steel and concrete bridges on Little Rock-Hot Springs road, between Benton and Hot Springs.

Fla., Eau Gallie-F. G. Fletcher, Vero, was awarded contract for bridge to Eau Gallie Beach, across Indian River.

Fla., Jacksonville-Duval County Commrs. let contract to A. Bentley & Sons Co., Jacksonville, and American Bascule Bridge Corp., Pensacola, Fla., for 2 bridges at \$227,402.55 for 978 ft. bridge over McGirts Creek, near Jacksonville, twenty-two 41-ft. concrete girder spans on concrete piers, with double leaf rolling lift bascule span 53-ft. clear waterway; 28-ft. roadway; two 4-ft. sidewalks at \$206,719.48 for 1,333-ft. bridge over Trout Creek, twenty-three 47-ft. concrete girder spans on concrete piers, with double leaf rolling lift bascule span, 20-ft. roadway, two 4-ft. sidewalks, 53-ft. clear waterway in draw. Noted April 3.

Fla., Miami-Dade County plans 3 bridges. Details under Road and Street Construction.

Fla., St. Petersburg-City plans building 6 bridges. Details under Road and Street Construction.

Fla., Tampa-Town will build 4 bridges. Details under Road and Street Construction.

Georgia-State Highway Dept., East Point, Ga., will build 2 bridges. Details under Road and Street Construction.

Ga., Columbus-Central of Georgia Ry., Capt. W. K. Lawrence, Ch. Engr., Savannah, plans expending about \$15,000 for 160ft. culvert on 10th Ave. below 10th St. under Central of Georgia tracks; Walter A. Richards, City Mgr.

Ga., Thomaston-Details under Road and Street Construction.

Ky., Hazard-Barney Baker and others will receive bids until May 12 for bridge across Kentucky River; cost \$15,000.

La., New Orleans-City received low bid from O'Brien Construction Co. at \$26,600 for 662-ft. pedestrian viaduct at Canal St. Ferry; John Klorer, City Engr.

Md., Annapolis-Anne Arundel County Commrs. let contract to McLean Contracting Co., Fidelity Bldg., Baltimore, at \$23,850, to reconstruct bridge over Stoney Creek.

Md., Baltimore-Bernard L. Crozier, Highways Engr., is preparing plans for bridge at Russell St. across Western Maryland Ry. and Gwynns Falls.

Miss., Canton-Madison County Board of

Pearl River between Canton and Brandon at Meek Ferry; W. R. Shearer, Pres.; plans, etc., from State Highway Engr., Jackson.

Miss., Jackson-Illinois Central R. R. Co., F. L. Thompson, Ch. Engr., Chicago, Ill., plans building 1½ mi. vladuct from Fortification St. to 1/2 mi. south of Jackson Casket Co.; approximate cost \$1,500,000.

Miss., Jackson-Hinds County Board of Supvrs. receives bids May 7 for improving 4 bridges as follows: Build new abutment piers for bridge over Baker's Creek near Bolton; retaining wall and fill at West End of Baker's Creek Bridge on Bolton and Edwards Road; 52-ft. bridge over Peyton Creek on Elliott road; 30-ft. bridge on Edwards and Utica road near Cannada Place; plans, etc., from W. W. Downing, Clk.

Missouri—State Highway Dept., Jefferson City, Mo., received low bids for 8 bridge projects as follows: State Project Route 5. Sec. 17, Linn County, over Muddy Creek, on road from Linneus to Laclede, Meek & Galbreath, Chillicothe, \$11,193.20; Route 39, Sec. B-Dade County, over creek on road from Greenfield to Pennsboro, R. H. Sharp, Reeds Springs; 240-A-Webster County, over Northview Branch, on road from Springfield to St. Louis, C. F. Johnson & Son, Buffalo, Mo.; Route 24, Sec. 31—Benton County, over creek, on road from Cole Camp west, Bertram & Menefee, Sedalia; Cooper County, 3 on road from Kansas City to St. Louis; 230-B
—Over Laimine River, Haller & Davis, Boonville; 230-C-over stream, W. J. Cochran & Son; 230-B-over Choteau Creek, Western Bridge Co., Harrisonville, \$12,374.35; Route 47, Sec. 22—Franklin County, over stream, on road from Washington to Villa Ridge. Thomas & Samson, Bonnot Mill, Mo.

Missouri-State Highway Dept., Jefferson City receives bids May 6 for: and State Project 225-A, St. Louis County, 5 on road from St. Louis to Fenton; over Fenton Creek, 50-ft. steel truss span, 2 reinforced concrete abutments, 20-ft. roadway; over Meramec River, two 200-ft. steel truss spans, 3 reinforced concrete piers, two 120ft. steel truss spans, 2 reinforced bents. 20ft. roadway; over Fenton Creek Branch, 20ft, reinforced concrete slab spans, 2 reinforced concrete abutments, 20-ft. roadway; over drainage ditch, thireen 20-ft. reinforced concrete slab spans, 14 concrete pile bents, 20-ft. roadway; over ditch, 30-ft. I-beam span, wood pile bents, 20-ft. roadway; Route 36, Barton County, 4 on road from Lamar to Minden Mines; Sec. 2, over creek, 25-ft. reinforced concrete deck girder span, 2 reinforced concrete abutments, 20-ft, roadway; over creek, 25-ft. reinforced concrete deck girder span, 2 reinforced concrete abutments, 20-ft. roadway; Sec. 3, over stream, 25-ft. reinforced concrete deck girder span, 2 reinforced concrete abutments, 20-ft. roadday; over stream, 20-ft. reinforced concrete slab span, 2 reinforced concrete abutments, Supvrs. receives bids May 7 for bridge over | 20-ft. roadway; No. 144B, Callaway County,

over Whetstone Creek on road from Williamsburg east and west, 30-ft. reinforced concrete deck girder span, 2 reinforced concrete abutments, 20-ft. roadway; Texas County, 2 on road from Dunn to Cabool; No. 90G, over creek, three 20-ft. reinforced concrete slab spans, 4 reinforced concrete bents 20-ft. roadway; 90F, over creek, four 20-ft. reinforced concrete slab spans, 5 reinforced concrete bents, 20-ft. roadway; B. H. Piepmeier, Ch. Engr.

N. C., Fayetteville-City receives bids May 14 to furnish material and build 5 reinforced concrete bridges and culverts; deck girder bridge over Cross Creek, at Ann St.; deck girder bridge over Blounts Creek at Hawley Lane: deck girder bridge over Cross Creek at Cool Spring St.; 2 box culverts for Blunt Creek at Cool Spring St.; plans, etc., from Wm. C. Olsen, Conslt. Engr., Raleigh, N. C.; H. C. McBuie, City Clk.

N. C., Newton—Catawba County Highway Comn. receives bids until May 5 for reinforced concrete bridge over Catawba River, between Newton and Taylorsville, twelve 521/2-ft. deck girder spans, 20-ft. roadway; plans, etc., from County Engr. and W. B. Kiker, Conslt. Engr., Newton.

N. C., Washington-Details under Drainage and Irrigation.

S. C., Charleston-Charleston County Sanitary & Drainage Comn. plans building 2 bridges. Details under Road and Street Construction.

S. C., Chester-Details under Road and Street Construction.

S. C., Manning-Clarendon and Orangeburg Counties plan building bridge over Santee River near Pinckney Landing; esti-mated cost \$500,000, Clarendon and Orangeburg Counties each to pay \$110,000, State and Federal Governments to pay half cost. Address County Commrs.

Tex., Houston-Harris County Commrs. let contract to A. S. Adams, Houston, at \$7851.85 for concrete bridge on Westhelmer road.

Tex., Houston-Harris County let contracts for 2 bridges as follows: Lynchburg road bridge, W. A. Burnet, \$15,000; Croby-Cedar Bayou-Goose Creek bridge, W. A. McClendon, \$7000. Address County Commrs.

Tex., Houston-Harris County receives bids May 19 for Battleground road bridge; plans, etc., from County Engineers; H. L. Washburn, County Auditor.

Va., Richmond-Richmond, Fredericksburg & Potomac R. R. Co., E. M. Hastings, Ch. Engr., Richmond, plans bridge over Neabsco Creek; steel bents, concrete sills and solid concrete floor; 1000 tons steel for fabrication, erection of which was let to American Bridge Co, 71 Broadway, N. Y.; concrete work to be done by company force; total cost approximately \$180,000.

W. Va., Clarksburg-Details under Road and Street Construction.

W. Va., Huntington-Details under Sewer Construction.

Canning and Packing Plants

Fla., Dunedin—Rhea & Co., Inc., James L. Kelly, Sec., opens bids August 1 to construct \$35.000 packing plant building, 130x 150 ft., brick; cost of equipment \$25.000; contract for equipment let to Skinner Machinery Co., Dunedin, Fla. (Noted April 24.) Fla., Vero—Harris Cobb Co., lately noted

Fla., Vero—Harris Cobb Co., lately noted incorporated with \$50,000 capital, C. E. Cobb, Pres., contemplates erecting vegetable and citrus fruit packing plant; wood and metal, 100x350 ft., 2 stories, metal roof; will install packing machinery.

Md., Silver Run, R. D. Westminster—A. W. Fesser & Co., Inc. capital \$300,000, incorporated by Arthur W Fesser, Paul E. Lawyer and others.

Mo., Republic—R. T. Bridwell Canning Co. will erect canning plant and warehouse.

Clayworking Plants

La., Lake Charles—Delatte & Lagrange, Inc., is erecting brick shed, 25,000 ft., with storage space for 350,000 bricks; will double output of plant.

Coal Mines and Coke Ovens

Ala., Birmingham—Raccoon Coal Co., incorporated by W. W. Smith, J. F. Stallings and others,

Ala., Jasper—Crow Coal Co., incorporated by Charles Crow, W. H. Catha and others.

Ky., Pineville—Starbuck Coal Co. increased capital from \$25,000 to \$40,000.

Ky., Norton, P. O. Ashland—Henry Dabb and associates have purchased plant of the Hombre Coal Co., at Coolidge; will develop and probably acquire additional acreage; changed name to Coolidge Coal Co.

Md., Baltimore—Piney Run Coal Co., Inc., 1801 Penrose Ave., capital \$50,000, incorporated by Chas. L. Munsen, Henry L. Offutt and others.

Cotton Compress and Gins

N. C., Oxford—M. B. Dickerson, R. D. No. 1, contemplates establishing cotton gin; desires prices on three 70-saw outfit, complete equipment, also 40 h.p. electric motor. (See Machinery Wanted—Cotton Gin Equipment; Motor (Electric).

Okla., Guymon—C. W. Williams and A. P. Williams, Hominy, Okla., will erect 2 cotton gins with daily output of 40 bales, at Guymon and Tyronne; main gin 20x92 ft.; two 28x28 ft. cotton houses; two 16x40 ft. cotton seed houses; lumber and cement, iron roof; let contract to Continental Cotton Gin

Co., Columbus, Ga., for equipment; cost \$14,-

S. C., Inman—Enoch Lawrence let contract to Brittain & Strange for ginnery and seed house on Howard St.; cost \$15,000. (Noted March 27.)

Tex., Richards—Goodwin Gln Co., capital \$20,000, incorporated by R. L. Sims, B. Cannon and others.

Concrete and Cement Plants

Miss., West Point—West Point Tile Co., capital \$25,000, incorporated by B. W. Norris, E. M. Powell and others.

N. C., Wilmington—Standard Cement Construction Co. increased capital from \$37,500 to \$62,500.

Drainage and Irrigation

Fla., St. Petersburg—Drainage—Details under Road and Street Construction.

Fla., Tampa—Dover Drainage Dist. Supvrs., M. D. Pooler, Sec., will receive bids until May 14 for construction of mains, laterals and other work set out in plan of reclamation; bids will also be received by W. J. McDonald, Treasurer, at 32 Giddens Bldg., on same date for sale of \$189,000 district bonds; McElroy Engineering Co., Chief Engrs., 32 Giddens Bldg., (Supersedes item March 27.)

N. C., Washington—Commrs. of South Creek Drainage Dist., Beaufort County, receive bids until May 7 for following improvements: straightening, deepening and widening portion of South Creek and constructing canal 20 ft. wide, 7 ft. deep, removing about 132,500 yds.; clearing 52.3 acres right of way for canal, construct three bridges across South Creek and canal, which is to be constructed; plans with R. L. M. Bonner, Chrmn. of Dist., Aurora, N. C.

Tex., Wharton—Wharton County Commrs. will construct drainage ditches, levees, etc.; B. M. Griffith, temporary engr., Wharton.

Electric Light and Power Plants

Ala. Birmingham — Birmingham Electric Co. incorporated by J. S. Coleman, A. K. Foster and others.

Ala., Montgomery—Alabama Public Service Commsn. granted permission to the Peoples Hydroelectric Power Co., Birmingham, Ala., R. H. Cobb, Pres., Talladega, Ala., to construct dam and other facilities on Coosa River at Lock 2 in Calhoun and St. Clair Counties.

Ark., Little Rock—Arkansas Central Power Co. will erect \$15,000 substation, Markham and Elm Sts.

Ark., Mena-W. F. Moody and G. O. Mac-

farlane of Little Rock have acquired Commonwealth Co.'s electric light, power and icoplant.

Fla., Bradentown—Details under Land Developments.

Fla., Howey-Details under Land Developments.

Fla., Sarasota—City voted \$125,000 bonds for enlarging, extending and reconstructing electric light plant and \$90,000 water improvement bonds. Address The Mayor. Noted April 10.

Fla., Tampa—Details under Land Developments.

La., Breaux Bridge—Collins Conrad of Lafayette, La., will erect water, light and ice plant.

La., New Iberia—Details under Water Works.

Md., Baltimore—See Gas and Oil Enterprises.

Mo., Columbia—Hinton Electric Transmission Co. incorporated by W. A. Bright, W. J. Carter and others.

Mo., St. Joseph—City, Henry ... Grosser, Mayor, will expend \$50,000 in improvements to electric light plant; install 2 boilers, engine and generator.

Mo., Springfield—James River Fishing & Hunting Club, Joel T. Morris, Director, will construct electric light line.

N. C., Asheville—Details under Land Developments.

N. C., Grimesland—City let contract to Banks & Pistole, Ahoskie, N. C., for constructing 9 mile electric light transmission line and town distribution system; E. P. Meredith of Washington, N. C., Engr. (Noted April 17.)

N. C., Lawndale—Cleveland Mill & Power Co., John F. Schenck, Sr., Pres., will let contract about May 15 for construction of hydroelectric plant on First Broad River; also opens bids for water wheels and electric machinery; Mees & Mees, Engrs., Charlotte, N. C.

Okla., Skiatook-City let contract to Lewis Electric Co., Skiatook, for white way system.

Tenn.. Johnson City—W. B. Ellison, Mayor, opens bids May 14 for installation of ornamental street lighting system along certain streets; proposed system will be single standard type and will require about 175 standards; bids are invited on: (A) constant current regulating transformers, control panels, measuring instruments and current transformers; (B) ornamental posts complete with tops, sockets, glassware, compensators, canopies and potheads; (C) required number

We Publish a Daily Bulletin

of brief news items of business activities in the South and Southwest which open many Sales Opportunities.

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May we send you a sample copy of the Daily Bulletin and complete information?

MANUFACTURERS RECORD

BALTIMORE, MD

of street series lamps for tip-up burning; (D) all necessary wire and underground cable; (E) installation of whole equipment ready for connection to local power company's line; T. H. McNeil, Recorder.

Tex., Austin—City, C. N. Avery, Water and Light Commr., will improve light and power lines.

Tex., El Paso—City opens bids May 1 for installing, are lighting system; W. E. Stockwell, Engr.

Tex., Mineola—East Texas Public Service Co., Marshall, Tex., has acquired Mineola Light, Ice & Power plant; will improve and operate.

Fertilizer Plants

Fla., Tampa—U. S. Export Chemical Co., 476 1st Ave. North, St. Petersburg, Fla., reported let contract to Tampa Shipbuilding & Engineering Co. for construction of superphosphate plant at mouth of Alafla River; steel, 112x230 ft., with clearance of 48 ft. inside; equipped with electric traveling crane, dryers, vats and machinery; build private railroad 14 miles long connecting phosphate properties with deep water way terminal docks and phosphate loading docks; Chemical Construction Co., Peter S. Gilchrist, Pres., Charlotte, N. C., are the engineers (Noted June 7 and 21, 1923.)

Flour, Feed and Meal Mills

Ala., Attalla—Alabama Milling & Grain Co., Inc., reorganized with O. Z. Brown, Pres., has plant wit hdaily capacity of 2400 bu. corn meal; will install additional machinery.

Ark., Fort Smith—Fort Smith Milling & Elevator Co., South Fifth and E Sts., E. D. Walker. Gen. Mgr., Rich Hill, Mo., will expend \$10,000 in improvements to plant.

Fla., Bonifay—D. O. Wilson & Son acquired Bonifay Milling Co.'s plant; will operate.

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Mo., Maryville—Otto Schricker of Gurley Flour & Milling Co. of Gurley, Neb., contemplates erecting flour mill.

Mo., Moberly—McAfee Milling Co., capital \$300,000, incorporated by Frank C. McAfee, Peter Stauffer and others.

Mo., St. Louis—Horner Elevator & Mill Co., Inc., capital \$40,000, incorporated by Henry Heil, Jr., Leon M. Feigenbaum and others

Okla., Muskogee—H. J. Venus Flour & Feed Co., capital \$25,000, incorporated by H. J. Venus, R. F. Coll and others.

Tex., Cuero—Cuero Mill & Feed Co., lately noted incorporated with \$15,000 capital, organized with W. M. Seeligson, Pres., Goliad, Tex.; W. B. Utesch, Sec., Cuero; will erect mixed feed plant, daily output 50,000 lbs.; metal building with concrete floors, 51x62 ft.; let contract to San Antonio Machine & Supply Co., San Antonio, for equipment.

Foundry and Machine Plants

Ala., Birmingham—O. L. Dortch, Pres., The Jacobs Stove Co., Bridgeport, Ala., has acquired plant of the Avondale Stove & Foundry Co. on First Ave.; will erect factory on adjacent lot and will triple present capacity of plant; will also move patterns and machinery from Bridgeport.

Fla., Miami—East Coast Boiler & Machine Co., M. R. McGechin, Pres., increased capital to \$100,000.

Gas and Oil Enterprises

Ala., Ensley—J. S. Pevear of Birmingham Electric Co., Birmingham, will install gas mains in Central Park; cost about \$35,000.

Fla., Miami-Relik Holding Co. incorpo-

rated with N. W. Reid, Pres.; Telfair Knight. Sec.

Fla., Palmetto—Palmetto Lease-Holding Co. incorporated with C. J. Parrish, Pres.; L. Bell, Sec.-Treas.

Fla., Pensacola—Pure Oil Co. has petitioned City Comn. for authority to construct terminals on water front, with capacity of 1.500.000 gals.

Fla., St. Petersburg—Details under Road and Street Construction.

Fla., Tampa — Southern Oil Co., capital \$100,000, incorporated with W. S. Barret, Pres.-Treas.; W. M. Taliaferro, Sec.

Fla., Tallahassee—Details under Land De velopments.

Ga., Augusta—Gas Light Co. has let contract to Gas Machinery Co. of Cleveland, Ohio, for 7-ft. carbureted water gas apparatus to be installed in generator house; equipment includes brick overhead operating floor, turbo blower, air and steam meters, etc.

Ky., Owensboro—Greasy Creek Oil Co., capital \$100,000, incorporated by Clarence T. Case, J. C. Miller and others.

Md., Baltimore—Consolidated Gas, Electric Light & Power Co., Lexington Bldg., granted permission by Public Service Comn. to issue \$4,000,000 of preferred stock.

Miss., Vicksburg—Pan Handle Oil Co., capital \$20,000, incorporated by Charles E. Crook, E. C. Neill and others,

Mo., St. Louis—Monarch Oil Corp., capital \$250,000, chartered by R. C. Maginity, A. F. Woberly and others.

Mo., St. Louis—Silurian Oil Co. incorporated with B. O. Mahaffey, V. P.; E. R. Christman, Sec.

N. C., Salisbury-Rowan Oil Co. increased capital from \$10,000 to \$50,000.

Okla., Blackwell—Tamara Oil Co., capital \$100,000, incorporated by W. J. Newson, of Blackwell; Erwand S. Toumanianz, of Ponca City, Okla.

Okla., Bartlesville—Enterprise Development Co., capital \$30,000, incorporated by O. A. Kraeor, Bartlesville; John W. Stark, Independence, Kan.

Okla., Cushing—Deer Creek Pipe Line Co., lately noted incorporated with \$100,000 capital, R. C. Jones and others, will construct 35 miles of 8-in. welded pipe line; cost \$300,000; Williams Bros., Contrs., Tulsa,

Okla., Guthrie—Guthrie Gas Co. will expend \$80,000 on improvements to plant.

Okla., Okmulgee—Mid-Continent Lease & Royalty Exchange incorporated by Eldon J. Dick, Jos. L. Pitchford and others.

Tex., Amarillo—Twin Six Oil Co., capital \$60,000, incorporated by L. B. Newdy, J. Ray and others, will develop 760 acres in Hutchinson County.

Tex., Amarillo—Dorset Carter, Oklahoma City, Okla., reported to construct pipe line from Carson County oil field and erect 2 refineries.

Tex., Corsicana—Powell Salt Water Co., capital \$50,000, incorporated with H. L. Edwards, Pres., Houston; Marion Brock, Sec. Treas., Corsicana.

Tex., El Paso-Rio Grande Oil Co., increased capital from \$1,500,000 to \$3,000,000.

Tex., Texas City—Marland Refining Co., E. W. Marland, Houston, Tex., will erect barreling plant, daily capacity 2500 bbls.

W. Va., Hinton-Miller Oil Co., capital \$75,000, incorporated by W. O. Hundley, S. H. Honaker, Huntington; E. F. Thompson, Hinton.

Ice and Cold-Storage Plants

Ala., Cordova—Cooper Ice Co., Inc., capital \$30,000, chartered by I. E. Cooper, J. L. Caraway and others.

Ark., Berryville—Berryville Ice & Storage Co., N. Springfield St. (lately noted incptd., capital \$10,000) organized with Geo. W. Basore, Pres-Mgr.; let contract to Baker Ice Machine Co., Omaha, Neb., for equipment; are erecting 40x60-ft. plant, steel frame and stucco finish, concrete floors, galvanized iron roof; daly output 10-12 tons; equipment purchased from Fairbanks, Morse & Co., St. Louis, Ill.; Breslin Boiler & Iron Works, Fort Smith, Ark.; and Western Pipe and Steel Co., Chicago, Ill.

Fla., Stuart—Inlet Power & Ice Co., capital \$100,000, incorporated with F. A. Parsons, Pres.; C. J. Earley, Sec.-Treas.

La., Breaux Bridge—Details under Electric Light and Power Plants.

Md., Baltimore—Crystal Ice & Transfer Co., 2100 E. North Ave., increased capital to \$200,000.

N. C., Kinston—F. C. Dunn, Pres, Lenoir Oil & Ice Co., has acquired the Kinston Ice Manufacturing plant; continue existing business,

Land Development

Ala., Birmingham—Universal Realty Co., incorporated by L. S. Stephens, G. M. Dearman and others.

Ala., Birmingham—Gabro Realty Co., capital \$10.000, incorporated by Geo. A. Blinn, Jr., J. W. Donnelly and others.

Ala., Birmingham—L. E. Ford Realty Co., Inc., capital \$10,000. chartered by L. E. Ford, W. W. Sewell and others.

Ala., Birmingham—Cofford Realty Co., Inc., chartered by H. W. Cofford, G. E. Ford and others,

Ala., Birmingham—Mindon Realty Co. incorporated by Geo. A. Blinn, Jr.; J. W. Donnelly and others.

Ala., Brewton—Downing Park Co., Inc., chartered by Lucie B. and Effie Campbell.

Ala., Sheffield—Gillespie Realty Co., capital \$25,000, incorporated by S. E. and W. H. Gillespie.

Fla., Boca Ratone—Boca Ratone Land Co., lately noted incorporated with \$10,000 capital, B. B. Raulerson, Pres.; H. D. Gates, Sec., will expend \$10,000 in developing 25 acres for homesite; install water and streets.

Fla., Boynton—City, Harry Benson, Mayor, contemplating development 5-acre park.

Fla., Bradentown—R. G. Whitney of Bridgeport, Conn.; John F. Moody of New Haven, Conn.; J. H. Wetts of Chicago, Ill. have acquired 26½ acres on Manatee River and will develop for homesite; will fill in along river; install water, sewers, electric lights, build roads and streets, etc.

Flå., Bradentown—Maj. R. E. Strong will develop 40 acres for subdivision.

Fla., Bradentown—W. F. Bowman of Bowman Realty Co., Tampa, Fla., interested in development of subdivision at Hexhurst on Anna Maria Key.

Fla., Floral City—S. F. King, Jacksonville, Fla., will develop 60 acres for tourist settlement.

Fla., Fort Myers—Tropical Fruits Development Co., capital \$30,000, incorporated with John W. Blanding, Pres.; R. S. Burton, Sec.-Treas.

Fla., Howey—Fred Parks of Joliet, Ill., will develop townsite; install water and light

system, pave streets, cement sidewalks, sewer system, etc.

Fla., Jacksonville—Bay View Corp., organized with B. C. Buck, Pres., has acquired 225 acres of land on water front and will develop. Fla., Miami—Details under Road and Street

Construction.

Fla., Miami—Roy C. Wright Properties, Inc., capital \$10,000, incorporated with Roy C. Wright, Pres.; F. W. Cason, Sec.

Fla., Palatka—Coquina Gables, capital \$15,000, incorporated with Goode M. Guerry, Pres.; Clifton W. Loveland, Sec.

Fla., Pensacola—Treasure Hill Park Corp., capital \$100,000, incorporated with Theo. Baars, Pres.; Frederick Gillimore, Sec.-Treas.

Fla., Palm Beach—Stuyvesant Realty Co., capital \$250,000, incorporated with Samuel Scher, Pres.; Pauline Scher, Sec.-Treas.

Fla., Tampa—W. M. Fielder, W. E. Hammer and associates interested in development of land for industrial and manufacturing plants.

Fla., St. Petersburg—Rogers-Scott & Thomas, Inc., capital \$50,000, incorporated with C. F. Rogers, Pres.; Roy Scott, Sec.-Treas.

Fla., St. Petersburg—Pinellas Land Corporation, capital \$50,000, incorporated with L. A. Salisbury, Pres.; S. H. Harris, Sectores.

Fla., St. Petersburg—Pollock Development Co., capital \$100,000, incorporated with A. H. Pollock, Pres.; Isham P. Byron, Sec.-Trens.

Fla., Tampa—Details under Road and Street Construction.

Fla., Tampa—City voted to convey to D. P. Davis, Miami, Fla., its interest in Big and Little Grassy Islands; will develop 55 acres for parks, construct bridge to mainland, concrete bulkhead, causeway, deep water channel, etc. (Noted March 20.)

Fla., Tampa—Scally-Turner Realty Co., capital \$25,000, incorporated with W. R. Turner, Pres.; T. M. Weir, Sec.

Fla., Tampa—W. L. McNevin & Co., will develop subdivision; install roads and streets, water works, sewers, electric lights, etc.

Fla., Tallahassee—Tallahassee Development Co., lately noted incorporated with \$25,000 capital, J. Rutledge, Pres.; Frank D. Moor, Sec., will develop 20 acres of land for subdivision, install sidewalks, gas, water, roads and streets, etc.: W. H. Buchan, Constr., Engr., Tallahassee. Noted April 24.

Fla., West Palm Beach—St. Lucie Inlet Land Corp., capital \$100,000, incorporated with W. E. Weiss, Pres.; Roger L. Dodd, Sec.

Fla., West Palm Beach—Phillips Florida Land Co., capital \$10,000, incorporated with Isaac M. Martin, Pres.-Treas.; S. C. Kearley, Sec.

Fla., Winterhaven—Lundberg, Sons & Co., capital \$30,000, incorporated with Ed. B. Lundberg, Pres.; Florence Lundberg, Sec.-Treas.

Fla., Winter Haven—Witherspoon Fielden Development Co., capital \$100,000, incorporated by W. P. Witherspoon and C. R. Fielden, both of Knoxville, Tenn., will develop 214 acres of land for subdivision; initial development 20 acres along shores of Lake Howard, construct streets, sidewalks, etc.

Ga., Savannah-J. C. Lewis, Pres. Lewis Motor Co., will develop 730 acres of land for subdivision.

Ky., Louisville—Short Land Co., capital \$25,000, incorporated by James T. Short, Read Howard and others.

Ky., Louisville—Matz Realty Co., capital \$100,000, incorporated by Samuel Matz, Alfred Solligman and others.

La., Raton Rouge—Ory Development Co. Inc., capital \$50,000, chartered with W. S. Holmes, Pres.; Millard E. Byrd, Sec.

Md., Baltimore—Katz Realty Co., 105 N. Charles St., incorporated by Sigmund and Louis Katz and others.

Md., Baltimore—Pleasant Heights Co., 300 N. Gay St., incorporated by Roy M. Nichols, Samuel J. Kramer and others.

Md., Baltimore—George L. Schnader, 115 N. Chester St., will develop 150-acre tract on Sue Creek for subdivision.

Md., Baltimore—Workman's Security Development Co., 359 Calvert Bldg., capital \$100,000, incorporated by Abraham Levine, Benj. Zimmerman and others.

Md., Baltimore—Croner, Inc., 733 Calvert Bldg., capital \$35,000, chartered by Louis Croner, Albert B. Huss and others,

Md., Baltimore—James E. Donnelly Building Co., 1621 Munsey Bldg., capital \$10,000, incorporated by James E. Donnelly, Wm. C. Rogers and others.

Md., Towson—J. Elmer Weisheit, 125 E. Baltimore St., Baltimore, will develop 10 acre tract on Chesapeake Ave. for cottage community; plans by Roland Park Co., 332 N. Charles St., Baltimore.

Mo., Chaffee—Wylie & Packwood Real Estate & Insurance Agency, Inc., capital \$10,000, incorporated by J. Claude Wylie, F. G. Packwood and others.

Mo., Kansas City—The King-Moore Investment Co., capital \$20,000, incorporated by J. Moore, Geo. King and others.

Mo., Kansas City—Monarch Realty Co., 315 Wirthman Bldg., incorporated by P. W. Smith, H. B. Timberlake and others.

Md., Mt. Winans, Sta. Baltimore—Rittenhouse Realty Co., capital \$60,000, incorporated by Chas. C. Rittenhouse, James Rittenhouse, Jr., and others.

Miss., Vicksburg—Parkside Land Co., capital \$30,000, incorporated by Richard P. Jones, Geo. M. Sudduth and others.

N. C., Asheville—J. T. Horney will develop 49 acres of land for subdivision; install water, sewers, concrete roads, telephone system, etc.; Major T. A. Coxe, Jr., Asheville, Engr. in charge.

N. C., Asheville—Lakeview Corporation will construct 18 hole golf course at Beaver Lake, erect clubhouse, etc.; expend \$350,000.

Tex., Houston—Howard G. Fields Lumber Co., Inc., Howard G. Fields, Pres., interested in development of homesites.

W. Va., Charleston—Reed Bigley Co., capital \$100,000, incorporated by Reed Bigley,

W. Va., Morgantown—Mon Valley Realty Co., capital \$100,000, incorporated by Donald K. Morehaud, Alva L. Hartley and others. Paul Wehrie and others.

Lumber Enterprises

Ala., Ariton—National Lumber Co. (lately noted incptd., capital \$18,000) organized with O. S. Ranier, Pres.; E. M. Towns, Sec.; will erect plant; construction by owners; install planer, dry kilns, etc.; cost of plant and equipment \$10,000.

Ala., Jackson—Clarke County Saw Mill Co., capital \$36,000, incorporated by J. R. and Henrietta Wallace.

Ala., Jackson—Sterling Timber Co., Inc., capital \$100,000, chartered by J. E. Wallace, E. S. Poitevent and others.

Florida—W. B. Harbeson of Pensacola, Fla., reported to have acquired 115,000 acres timber land in Liberty and Franklin Counties, giving a total acreage of 156,000. Lately noted to have purchased timber holding from Graves Lumber Co., near Carabelle.

Ky., Blackley-T. A. Dixon will develop

timber land on Rockhouse Creek, build saw mills, etc.

Ky., Louisville—W. J. Hughes & Sons Co., Alexander P. Witty, Pres., 14th and Mauple Sts. plans building second unit to plant now under construction, giving total frontage on 14th St. of 410 ft. Building of main plant noted April 10.

Miss., Jackson—Enochs Lumber & Manufacturing Co., J. L. Enochs, Pres.; the Flagler Co. of Atlanta, Ga., has contract for rebuilding plant and subcontracts are as follows: to American Woodworking Machinery Co., Rochester, N. Y., for all equipment; National Blow Pipe Co., of New Orleans, La., for blow pipe work; Grinnell Co., New Orleans, La., for sprinkler equipment. Noted Jan. 31.

Miss., Leaf--Leaf Lumber & Veneer Co., capital \$100,000, incorporated by J. C. Daughdrill of Leaf; B. E. Green, McLain, and others.

Miss., Tutwiler—City Lumber Co. incorporated by F. T. Jerrard, Tutwiler; S. J. Simmons, Grenada, Miss., and others.

North Carolina—Dr. H. L. Stewart and Minor Keith, 17 Battery Place, New York City, and others have acquired between 60,000 and 100,000 acres timber lands in western North Carolina; will develop, construct approximately 50 mi. railroad from Sevier-ville to Haynesville, N. C.; Gen. Frank Maloney of Knoxville in charge of railroad construction; Chas. S. Hinkley, Const. Engr.

Tenn., Greeneville—Wardrep-Hoak Lumber Co. incorporated by R. C. Wardrep, C. L. Marshall, Johnson City, Tenn.; W. H. Armitage, Greeneville; have acquired the J. E. Bullen & Co.'s plant; will operate.

Tenn., Memphis—W. G. Mitchell, of Atlanta, Ga., has acquired plant of the West Memphis Lumber Co.; will develop.

Tex., Houston—Steves Lumber & Building Co., capital \$50,000, incorporated by A. F. J. Steves, John H. Baber and others.

Texas—William Rogers of Lometi, Tex., is Installing \$15,000 saw mill at Rock Crossing. W. Va., Huntington—Mountain State Lumber Co., capital \$100,000, incorporated by J. A. Berry, W. H. Baker, Jr., and others.

Mining

Tenn., Chattanooga—American Bauxite Co., incorporated by Norman B. Norrell, Chas. A. Miller and others.

Tex., New Braunfels—New Braunfels Limestone Co., capital \$50,000, incorporated by Max A. Altgelt, Emil Fischer and others.

Miscellaneous Construction

Fla., Daytona—Waterfront Improvements—City, L. E. Hough, Clk., will receive bids until May 20 on following waterfront improvements; Contr. No. 1 includes about 5500 lin. ft. of seawall, 7 ft. high; 192,000 cu yds. earth fill and miscellaneous small work; Contr. No 2—1300 lin. ft. of seawall about 7 ft. high, 1400 cu. yds. earth fill and miscellaneous small work; Contr. No. 3—3300 lin. ft. of seawall, 6 ft. high, 103,000 cu. yds. earth fill; Harrington, Howard & Ash., Conslt. Engrs., Kansas City, Mo.

Fla., Jacksonville—Pier and Bulkhead—United States Engineer receives bids until May 19 for pier, 303 ft. long and 40 ft. wide and bulkhead of steel sheet piling, 214 ft. long, consisting of 14 in. arch web steel sheet piling in 40 ft. lengths; work located on west side of the St. Johns river adjoining the municipal terminals on the north, all part of dredge depot.

Fla., St. Petersburg—Port Development—Details under Road and Street Construction.

Fla., Tampa—Incinerator—Seawall—Details under Road and Street Construction.

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La., New Orleans—Swimming Pool—Details under Miscellaneous Enterprises.

Kentucky—War Department will expend \$2,000,000 on existing projects along the Ohio River as follows: \$156,000 at Dam No. 32, \$310,000 at Dam No. 34, \$385,000 at Dam No. 36, \$100,0000 at Dam No. 38, \$150,000 at Dam No. 45, \$200,000 at Dam No. 46, \$250,000 at Dam No. 49, \$160,000 at Dam No. 50, \$75,000 at Dam No. 51, and \$100,000 at Dam No. 52; remainder of allotment to be expended upon improvement and maintenance of construction plants.

Ky., Winchester—Incinerator—City, John W. Crone, Commr. of Public Property, will build garbage incinerator, present population 10.000.

10,000.

Md., Baltimore—Incinerator—Board of Awards, F. A. Dolfield, Register, City Hall, receive bids until May 14 for refuse disposal plant at Sisson and 28th St.; C. H. Osborn, Inspector, of Buildings

Inspector of Buildings.

Md., Baltimore—Heating Plant—Capt.
Steuart Purcell, City Engr., is completing plans for \$250,000 municipal heating plant to supply heat to the City Hall, Courthouse, Hoen Building and new Memorial Building; have selected site; William F. Stone, Jr., Munsey Bldg., Archt.

Md., Chesapeake City—Dredging—Arundel Corporation, Pier 2, Pratt St., Baltimore, Md., lowest bidder at \$230,000 for dredging section of the Chesapeake and Delaware Canal between Summit Bridge and Chesapeake City, comprising about 1,000,000 cu. yds. earth removal; Col. Earl I. Brown, U. S. Engineer.

Miss., Vicksburg—Channel—Warren County Levee Dist. let contract to McWilliams Co., Exchange Bldg., Memphis, Tenn., for dredging Muddy Bayou and digging 1 mi. channel.

W. Va., Huntington—U. S. Engineers office receives bids until May 28 to construct fireproof power house at Dam No. 32, Ohio River.

W. Va., Huntington—Dock—Philadelphia & Cleveland Coal Co. contemplates building coal-loading dock; project in charge of Graham, Scott and Wiswell, First National Bank Bldg., Huntington.

Mo., Lexington—Bank Protection—State Highway Dept., Jefferson City, Mo. receive bids until May 6 to construct 2400 ft. of current retards along north bank of Missouri rivér, in connection with building of bridge. (Noted April 24.)

Miscellaneous Enterprises

Ala., Atmore—Ramsey & Thornton, Inc., chartered by George Ramsey, W. V. Thornton and others; manufacture syrups, etc.

Ala., Birmingham—Cullen Bethea Advertising Co., Inc., chartered by H. D. Cullen, Rufus H. Bethea and others.

Ala., Birmingham—Birmingham, Purchasing Co., Inc., increased capital from \$10,000 to \$50,000.

Ala., Birmingham—Terry Show Case Co., capital \$10.000, incorporated by W. M. Terry, H. P. Woodson and others.

Ala., Birmingham—Birmingham Powder Co. incorporated by S. T. Yerkes, J. L. Burnett and others.

Ala., Birmingham—Storey-Matthews Manufacturing Co., Inc., increased capital from \$60,000 to \$125,000.

Ala., Birmingham—Southern Metallurgical Co., capital \$40,000, incorporated by Y. A. Dyer, D. G. Ewin and others.

Ala., Birmingham—Novelties Co., Inc., capital \$25,000, chartered by M. B. Eiseman, Philip Trost and others.

Alabama-J. J. Durr and S. E. Nettles, of

Montgomery, Ala., have purchased the formula and plant of the "Dickey Eye Water" from Robert W. Moulton, of Eufaula, Ala.; will move plant, fixtures, etc., to Montgomery; will enlarge and continue existing business.

Ala., Montgomery—Utility Trailer Works, Inc., chartered by C. R. Ballard, W. H. Metcalf and others; manufacture trailers, etc.

Ala., Selma—Selma Steam Laundry, John Rennie, Mgr., has acquired site at Franklin and Selma St.; will erect 1 story laundry plant; \$30,000 plant not completed.

D. C., Washington—Saygo Works, Inc., capital \$30,000, incorporated by E. Everett Lancester, Ouray Bldg.; C. Ernest Allwine and others.

Fla., Fort Lauderdale—Marine Contractors
—Tidewater Construction Co., capital \$25,000,
incorporated with C. M. Stone, Pres.; J. B.
Fraser, Sec.-Treas.

Fla., Hollywood—Hollywood Publishing Co., capital \$50,000, incorporated with J. W. Young, Pres.; F. O. Van Deren, Sec.-Treas.

Fla., Jacksonville—Certain Milk Co., C. A. Welant, Gen. Mgr., Myrtle and Forsyth St., have acquired 6 story building at 342 Riverside Ave.; will remodel and install equipment.

Fla., Jacksonville—Naval Stores—Southern Turpentine & Rosin Co., capital \$50,000, incorporated with E. G. Trenholm, Pres.; R. E. Price, Sec.-Treas.

Fla., Jacksonville—Sunshine Potato Chip Co., capital \$25,000, incorporated with E. L. Greene, Pres:; Albert Pate, Sec.-Treas.

Fla., Jacksonville—Building Materials—Drayer-Warren Co., capital \$100,000, incorporated with L. A. Warren, Pres.; A. C. Drayer, Sec.

Fla., Jacksonville—Insecticide—Universal Manufacturing Co., capital \$25,000, incorporated with J. C. Hatcher, Pres.; W. L. Schaus, Sec.-Treas.

Fla., Jacksonville—Harney-Judy Fruit Co., 440 West Bay St., W. R. Harney, Pres.; N. S. Fairchild, Sec., increased capital from \$100,000 to \$200,000; succeeds Porter-Judy Fruit

Fla., Lake City—Lake Shore Hospital Assn., capital \$20,000, incorporated with R. B. Hartness, Pres.; W. M. Hackney, Sec.-Treas.

Fla., Leesburg—Inland Transit Co., capital \$75,000, incorporated with Frank J. Peterson, Pres.; H. L. Wiley, Sec.

Fla., Miami—Fire Fighting Equipment—City contemplates purchasing additional fire engine. Address The Mayor.

Fla., Miami—Florida Preserved Fruit Corp., Geo. C. C. Shean, Propr., has acquired 146x150-ft. site on Flagler St.; has begun construction of 2-story, 40x85-ft. factory building; manufacture confections, crystalized fruits, etc.

Fla., St. Augustine—Transportation—St. Johns County Bridge Co., capital \$100,000, incorporated with Claude G. Varn, Pres.; Rudolph Peterson, Sec.-Treas.

Fla., St. Petersburg—Contracting—Cherokee Lodge Co., capital \$10,000, incorporated with H. C. Case, Pres.; W. R. Black, Sec.

Fla., St. Petersburg—West Coast Holding Co., capital \$60,000, incorporated with H. C. Case, Pres.; J. S. Davis, Sec.

Fla., Tampa—Fire Alarm System—Details under Road and Street Construction.

Fla., Tampa—Florida PepTone Corp., capital \$25,000, incorporated with A. T. Caswell, Pres.-Treas.; J. N. McCollum, Sec.

Ky., Ashland—Crescent Co., capital \$15,000, incorporated by S. S. Porter, A. R. Harless and others.

Ky., Louisville--Kentucky Workshop for

the Adult Blind, Frankfort and Bellaire Ave., let contract to J. F. Russell & Co., Louisville, for \$42,000 building, 39x108-ft., fireproof, reinforced concrete floors, composition and reinforced concrete roof; will manufacture brooms, mops, mattresses; Nevin, Wischmeyer & Morgan, Archts., 1317 Stark Bldg., Louisville.

Ky., Louisville—Kentucky Viking Sprinkler Co., capital \$10,000, incorporated by J. C. Watkins, F. B. Ayers and others.

Ky., Middlesboro—J. A. Merris and others interested in establishing rain coat factory.

Ky., Paducah—Armour & Co., Union Stock Yards, Chicago, Ill., have begun improvements to branch plant, expending between \$12,000 and \$15,000 on installation of new refrigerating system and remodeling building; C. C. Conrad, Branch Mgr.

Ky., Paintsville—Paintsville Ice Co. reorganized; will install complete bottling

La., Monroe—Twin City Printing Co., Inc., capital \$20,000, chartered with H. E. Watson, Pres.; J. R. Burns, Sec.

La., New Orleans—Amusements—Garden Plunge, Inc., capital \$250,000, organized with A. Miles Pratt, Pres.; will construct amusement park, City Park Ave. near Canal Blvd.; build 250x150-ft. swimming pool, enclosed cafe, ballroom and salon; ballroom to be 185x38 ft.; I. A. Whittle and Neil Gardner, Archts., both Knoxville, Tenn., interested.

La., Shreveport—Lime Cola Bottling Co. of Mansfield, La., has acquired plant, fixtures and equipment of The Grapico Plant, 2090 Texas Ave.; will continue existing business.

Md., Baltimore—Broadway Cloak & Suit Co., 205 S. Hanover St., capital \$25,000, incorporated by Louis Cooper, Ike Levin and others.

Md., Baltimore—Coppersmiths—L. Ellerbrock, Inc., 298 Frederick St., increased capital to \$100,000.

Md., Baltimore—Co-operative Apartment Co., 323 N. Charles St., capital \$100,000, incorporated by Roy G. Pratt, Edward A.

Strauff and others.

Md., Baltimore—Edward Morris Construction Co., 13 S. Gay St., capital \$25,000, incorporated by Morris Mankowitz, Edward Roseman and others.

Md., Baltimore—J. L. Robinson Construction Co., 1130 W. Lafayette Ave., increased capital to \$100,000.

Md., Baltimore—General Engineering Corp., 423 W. Franklin St., incorporated by Henry C. Chilton, Philip Gordon and others.

Md., Baltimore—Hildebrandt Transfer Co., Inc., capital \$45,000, incorporated by Clara tered by Harry Hildebrandt, Wm. C. Heiser and others.

Md., Baltimore—Luther E. Martin Co., Inc., 411 Equitable Bldg., capital \$25,000, incorporated by Chas. Kreuder, Jr., Alex. Goodman and others.

Md., Baltimore—John A. Gebelein, Inc., 731 Castle St., capital \$150,000, incorporated by John A. and Paul J. Gebelein and others.

Md., Baltimore—D. C. Elphinstone, Inc., 408 Continental Bidg., capital \$100,000, incorporated by D. C. Elphinstone, S. M. Christhilf and others.

Md., Baltimore—Henry Gehring Co., Calvert Bldg., incorporated by Richard F. Roberts, Don R. Sipe and others; manufacture beverages, etc.

Md., Baltimore—Contracting—Maryland Tenential Corp., Hearst Tower Bldg., capital \$100,000, incorporated by Jos. Hertzberg, Wm. F. Gray and others,

Md., Baltimore—Building Service Co., Inc., 1712 N. Charles St., capital \$100,000, incorporated by Chas. J. Peters, James A. Nolan and others.

Md., Baltimore—Artistic Neckwear Manufacturing Co., 115 N. Eutaw St., capital \$100,000, incorporated by Milton B. Edelson, Albert H. Frankel and others.

Md., Baltimore—George H. Buchheimer & Son, Inc., 508 S. Ann St., chartered by G. Harvey Porter, Leslie N. Baker and others.

Md., Baltimore—Corrugated Box Corp., 1012 N. Charles St., chartered by Leo J Goldbach, Henry A. Brehm and others.

Md., Laurel—R and R Radio Service, Inc., capital \$20,000, chartered by Israel Rosenfeld, Edward Rosenblum and others.

Md., Trego-T. L. Stine Amusement Co., Inc., capital \$45,000 incorporated by Clara M. Stine, Herbert G. Stine and others.

Md., Turner Station—Kany & Kadar Construction Co., incorporated by Paul Kany, Geo. Kadar and others.

Md., Westminster—Zile-Neuman Co., 207 E. Main St., capital \$100,000, organized with Edward W. Neuman, Pres.; Arthur Zile, Sec.-Mgr., have taken over established plant, 4-story brick building; will continue existing business; daily output 500 gals. ice cream and ice; will install \$20,000 equipment, including new trucks, iceless cabinets; 25-ton ice plant to be considered later.

Miss., Biloxi—Crushed Oyster Shell Co. increased capital from \$12,000 to \$20,000.

Miss., Laurel—Laurel Seed & Produce Co. incorporated by D. W. Davis, E. Malcolm Jones and others.

Miss., Marks—Barksdale Planting Co., capital \$25,000, incorporated by L. J. Barksdale and others.

Miss., Meadville—Robert Lambruth, Jr., contemplates establishing hatchery, with capacity of about 3000 chicks.

Mo., Centre—Blossom Brand Produce Co., capital \$25,000, incorporated by R. S. Buchanan, W. H. Reed and others.

Mo., Kansas City—Diversity Manufacturing Co. incorporated with Fletcher Lewis, Pres.; Beverly B. Vedder, Sec.; manufacture chemicals.

Mo., Kansas City—Gunite Concrete and Construction Co., 2724 Jarboe St., capital \$60,000, incorporated by Barclay A. Greene, J. H. Thompson and others,

Mo., Kansas City—Constable-Hurd-Hickman Printing Co., 1517 Grand Ave., capital \$24,-000, incorporated by John F. Constable, Asa D. Hurd and others.

Mo., Kansas City—North & Co., capital \$25,000, incorporated by Ray O. North, Wm. E. Dwyer and others; manufacture cereals.

Mo., Moberly—Pan-American Bridge Corp., capital \$10,000, chartered by John E. Lynch, M. A. Romans and others,

Mo., Robertsville—Illmo Dairy Co., capital \$10,000, incorporated with F. W. Schroeder, Pres.; W. S. Blackburn, Sec.

Mo., Springfield—Young Printing Co. will erect \$40,000 plant.

Mo., St. Joseph—Missouri Serum Co., capital \$18,000, incorporated by W. J. Klepper, J. C. Claussen and others.

Mo., St. Louis—Smith Belting Co, incorporated by C. A. Lackey, E. B. Smith, both 5090 A Kensington Ave., and others.

Mo., St. Louis—Louis Lange Publishing Co., capital \$20,000, incorporated by Theodore F. Lange, 3600 S. Texas Ave., August Lange and others.

Mo., St. Louis—Baird and McGuire. Inc., capital \$50,000, incorporated by James Varley, J. H. McGuire and others; manufacture insecticides.

Mo., St. Louis—Metropolitan Theatres Corp., capital \$60,000, incorporated by David Sommers, Emil S. Strauss and others.

Mo., St. Louis—David Jones Co., 702 N 3rd St., capital \$300,000, incorporated by David Jones, 3615 Utah Place; W. L. Schrader, 2918 Louisiana Ave., and others.

Mo., St. Louis — Scholl-Moeller Jewelry Manufacturing Co., Inc., chartered by Arthur H. Scholl, Elmer E. Moeller and others.

Mo., St. Louis—Steelcote Manufacturing Co. let contract to J. H. Bright Contracting Co., Arcade Bldg., for factory; 3 stories and basement, 60x100 ft., reinforced concrete and brick; Hellmuth & Hellmuth, Archts., De Menil Bldg.

Mo., St. Louis—F. Burkhart Manufacturing Co., Benedict and Prairie Sts., will erect addition to building.

Mo., St. Lou's—Illmo Radio Corp., chartered by Clarence H. Hughes, 214 Pine St., C. A. Fabick and others.

Mo., St. Louis—Printers Supply Co., capital \$10,000, incorporated by Joseph W. Weyers, Fred S. Henderson and others.

N. C., Canton—Champion Coated Paper Co., Hamilton, O., has acquired control of Champion Fibre Co. and will add an additional Fourdr'enier paper machine, also additional finishing room with necessary cutters, trimmers and super-calenders.

N. C., Gastonia—Ferguson Gear Co., capital \$100.000, incorporated by R. S. Ferguson, E. W. Bowen and others.

N. C., Charlotte—Lawing Mattress Manufacturing Co., G. T. A. Lawing, Propr., will rebuild burned plant.

N. C., High Point—Masonic Building Co., capital \$100,000, incorporated by J. E. Millis, C. E. Hayworth and others.

N. C., Raleigh—Fidelity Clothing Co., 124 E. Hargett St., capital \$25,000, incorporated by Britton R. Pierce, Jr., Max F. Frazer and others.

N. C., Southport—James B. Church Co., capital \$25,000, incorporated by James B. Church, C. Ed. Taylor and others; fish canning, etc.

N. C., Winston-Salem—Zinzendorf Laundry Co. has plans by Harold Macklin, Archt., for \$100,000 daylight laundry building, S. Main St. between Walnut and Mill Sts.; 2-story, 95x110 ft., steel frame with brick curtain walls, face brick with limestone trimmings; reinforced concrete floors, steel monitor; install complete power plant for furnishing hot water and generating power for various machines; also cleaning and dyeing plant; American Laundry Machine Co. of Cincinnati, O., has contract for machinery.

N. C., Wilmington—News-Dispatch Co., 8 N. Second St., lately noted incorporated with \$100,000 capital, J. L. Horne, Jr., Sec., Rocky Mount, N. C., has newspaper plant.

Okla., Bartlesville—Capital Candy Co, increased capital from \$25,000 to \$35,000.

Okla., Blackwell — Torrence Printing Co. incorporated by $\Lambda.$ B. Torrence, W. T. Addison and others.

Okla., Dewey—Bartlesville-Dewey Transportation Co., capital \$10,000, incorporated by Frank (Roe, O. A. Patridge.

Okla., Oklahoma City—Rexola Co., capital \$25,000, incorporated by Fred Davis of Ardmore, Robert Burnes, Oklahoma City, and others.

Okla., Tulsa—Vitrolithic Construction Co., capital \$25,000, incorporated by D. C. Horton, M. Montgomery and others.

Okla., Tulsa—Nokol Company, capital \$10,000, incorporated by Chas. L. Walling, Howard L. Hall and others.

S. C., Georgetown-Carolina Ice Cream Co.,

J. J. Scurry, Pres., will erect 600-gal. capacity addition to plant.

S. C., Spartanburg—Montgomery Building, Inc., capital \$500.000, chartered with V. M. Montgomery, Pres.; R. B. Beal, Sec.

S. C., Spartanburg—Manufacturers' Equipment Co. incorporated by R. W. Gossett, Jesse W. Boyd and others.

Tenn., Chattanooga—North & Co., capital \$25,000, incorporated by L. D. North, J. C. Worley and others.

Tenn., Jackson—Velvet Products Co., capital \$50,000, incorporated by D. V. Whitelaw. Clyde L. Collie and others.

Tenn., Knoxville—Reese Bakery Co., capital \$12,000, incorporated by A. G. Reese, H. E. Cates and others.

Tenn., Memphis — State Oil Burner Co., capital \$10,000, incorporated by D. T. Miller, W. W. Fisher and others,

Tenn., Memphis—Buckingham-Ensley-Carrington Co. increased capital from \$25,000 to \$75,000.

Tenn., Trenton—Baker, Eccles & Co. increased capital from \$25,000 to \$40,000.

Tex., Dallas—Athens Roofing Co., capital \$15,000, incorporated by P. E. Miller, Geo. M. Wofford and others.

Tex., Dallas—Dallas Packing Co., capital

\$75,000, incorporated by B. P. Smith, Chas. Tex., Goose Creek—Goose Creek Ice Co., C. F. Martin, Mgr., is erecting building and will install creamery equipment; cost \$10,-

Tex., Corpus Christi—Corpus Christi Garment Manufacturing Co., incorporated by E. M. Hamlin and others, has plant at 1700 Comanche St. for manufacturing overalls, rompers, etc.

Tex., Jasper—Jasper News-Boy, Inc., lately noted chartered with W. P. Smith, Pres.; J. M. Rateliff, Sec., will erect addition to plant, brick, 40x75 ft., 1-story, concrete floors, composition roof; will install new press and linotype, etc.; contract for equipment let to Mergenthaler Linotype Co., Brooklyn, N. Y.; Miller Saw Trimmer Co., Pittsburgh, Pa.; Barnhart Bros. & Spindler, Dallas. Tex., and E. E. Palmer & Co., New Orleans, La.

Tex., San Antonio—San Antonio Pa'nt & Varnish Co., capital \$15,000, incorporated by Edward Jedd Roe, Chas. M. Seidlitz and others.

Tex., San Antonio—National Carbonic Co., 202 Blue Star St., lately noted incorporated with \$60,000 capital; H. P. Goodman, Pres.; L. S. Goodman, Sec.; will erect carbon dioxide gas plant; ironclad 75x56 ft., concrete floors. galvanized iron roof; install complete equipment; Guy Borden, Constr. Engr. Noted April 24.

Tex., San Antonio—Lion Brand Products Co., G. H. Byrnes, Pres., will erect \$75,000 plant; manufacture of food products, daily output 100,000 lbs.; 100x300 ft., 2-story composition and gravel roof; install presses, dynamos, drying equipment, etc., cost \$50.000. Noted April 24.

Tex., Stanford—Layne-Yates Co. changed name from Layne-Wall Co., increased capital from \$30,000 to \$50,000.

Tex., Taylor—Taylor Amusement Co., capital \$25,000, incorporated by H. Bland, Sr., H. Bland, Jr., and H. H. Hoke.

Tex., Waco—French Bakery will erect \$40,000 addition to present plant; 2-story, brick, reinforced concrete, 30x120 ft., concrete floors, composition roofing.

Va., Cedar Bluff—Goodwin Automatic Fire Alarm Corp., capital \$150,000, chartered with James E. Goodwin, Pres.; Robert W. Harı

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Fire with Harman, Sec.; is erecting plant with daily capacity 5000 fire alarms.

Va., Norfolk—Automatic Vending Machine Corp. chartered with R. Paul Jones, Pres.; E. L. Potter, Sec.

Va., Petersburg—Dr. Jos. Smith, E. P. Garrity and others are interested in establishing \$30,000 packing plant, capacity 100 hogs daily and 50 head of cattle weekly.

W. Va., Elkins—Guy C. Means has acquired Elkins Inter Mountain Newspaper; will operate.

W. Va., Elkins—Inter-Mountain Publishing Co., capital \$50,000, incorporated by W. H. Ke'm, E. A. Bowers and others.

W. Va., Charleston—Sugar Drink Bottling Co., capital \$50.000, incorporated by C. P. Miller, Berkley Minor, Jr., and others.

W. Va., Huntington—Biern and Frankel, Inc., capital \$100,000, incorporated by Samuel Biern, T. Seldon Jones and others. W. Va., Wheeling—B. J. Neuhardt, Inc.,

W. Va., Wheeling—B. J. Neuhardt, Inc., capital \$200,000, incorporated by B. J. Neuhardt, Clarence H. Dugan and others.

Motor Cars, Garages, Tires, Etc.

Ala., Birmingham—Gentry Auto Supply Co., Inc., chartered by Chas. T. and Sam C. Gentry.

Ala., Birmingham—Barbee Ford Rental Service incorporated by J. M. Barbee, Martin Brown and others.

Ala., Huntsville—Berry-Alexander Motor Co., capital \$35,000, incorporated by Childs E. Berry, Claude M. Alexander and others

Ark., Little Rock—555 Tire & Service Co., Roy Stueber, Pres., W. Second St. and Broadway. has begun construction of \$150,000 building adjoining present plant; 3-story, fireproof with filling station on first floor corner; second and third floors for car storage and equip roof with tennis courts, hand-ball courts, roof garden, club quarters, dance floor, etc; install elevators, dumwaiters, etc.; Fred Parrott, Contr.; Witenberg, Deloney & Watts, Archts.

Fla., St. Petersburg—Albright Motor Co., O. R. Albright, Pres., Third Ave. and Third St., will build two additional floors to plant, increasing floor space to 24,000 sq. ft.

Fla., St. Petersburg—Garage—Tropical Oil Co., capital \$100,000, incorporated wtih Roy L. Dew, Pres.; Bainbridge Haywary, Sec.-Treas.

Fla., West Palm Beach—Bryant & Gray, Inc., capital \$25,000, incorporated with Herman Pitt Gray, Pres.; Joseph Weston Bryant, Sec.-Treas.

Ga., Augusta—General Tire & Supply Co., capital \$10.000, incorporated by Alonzo P. Boardman, Hollis C. Boardman and others.

Ky., Hopkinsville — Devil Grip Manufacturing Co. increased capital from \$50,000 to \$75,000; changed name from Red Devil Patch

Ky., Frankfort—Garage—Franklin County Fiscal Court will probably erect county garage building.

La., Shreveport—Filling Station—Standard Oil Co. of Louisiana will erect filling station, Fairfield and Jordan Sts.

Md., Baltimore—The Ray Sales Co., 1812 Eutaw Place, incorporated by Philip Rayner Straus, Philip B. Perlman and others.

Md., Baltimore—Federal Truck Co., 410 W. North Ave., capital \$100,000, incorporated by Martin L. Pulcher, Edward P. Hammond and others.

Md., Cumberland—Hodson Chevrolet Sales Co., capital \$50,000, incorporated by Samuel A. Luttrall, Palmer K. Hodson and others. Miss., Richton—McCormick Motorcar Co. let contract to McIntosh & Massengale of

Hattiesburg for \$25,000 garage, steel, concrete and pressed brick construction. (Noted March 13.)

Miss., Magnolia—Pierce Auto Electric Co., incorporated by A. E., J. E. and A. T. Pierce.

Miss., Senatobia—Senatobia Motor Transport Co., Lieut. T. T. Callicott, plans erecting building to house 25 additional army transport trucks.

Miss., Tutwiler—York Motor Co., incorporated by Walter L. York, Tutwiler; Frank Elgin, Memphis, and others.

Mo., Kansas City—Ace Auto Painting Corp. chartered by Mert E. Rawden, Frank W. Meierstein and others.

Mo., Ridgeway—Ridgeway Motor Co., capital \$100,000, incorporated by M. E. Neff, G. M. Neff and others,

Mo., St. Louis—Mason Motor Truck Co., capital \$39,000, incorporated with F. L. Bromley, V. P.; M. C. Day, Sec.

N. C., Albemarle—Auten-Wolfe Motor Co., capital \$50,000, incorporated by A. P. Harris, J. N. Auten and others.

N. C., Charlotte—Pyramid Motor Co., Fred Anderson, Pres., let contract to J. A. Jones Construction Co. for \$75,000 building at East Ave. and Davidson St.; 2-story, 82x210 ft., brick with ornamental design; Louis H. Asbury, Archt.; will probably erect another building later, also brick garage. (Noted April 17.)

N. C., Goldsboro—A. H. Handley Motor Co., capital \$25,000, incorporated by C. J. Baldwin, A. H. Handley and others.

N. C., High Point—Garage—Barker-Cecil Motor Co. w.ll erect 74x95-ft. garage building on Wrenn St., hollow tile construction, concrete floors, composition roof; day labor. (Noted April 24.)

N. C., Sanford—Edwards Railway Motor Car Co. increased capital to \$500,000; will erect new buildings.

Tenn., Chattanooga — Filling Station — Standard Oil Co. will erect \$10,000 filling station corner Main and Cowart St.

Tex., Abilene—Garage—A. J. Herrington let contract to A. W. Balfanz, Abilene, to erect 1-story, 175x130-ft. brick garage building; The David S. Castle Co., Dallas and Abilene, Archt.

Tex., Dallas—Franklin Rickenbacher Co., capital \$18,000, incorporated by Wm. G. Langley, W. T. Bullock and others.

Tex., Lubbock—Kuykendall Chevrolet Co., capital \$15,000, incorporated by G. P. and M. V. Kuykendall.

Va., Norfolk — Ford Motor Co., Detroit, Mich., let contract to Ingalls Iron Works, Birmingham, Ala., for structural steel work in the first unit of plant at Newton Park; and bids for construction of first unit will be opened this week.

W. Va., Bluefield—Mercer Garage, J. F. Willis, Mgr., Stewart St., let contract to J. H. Hildreth & Son, of Tazewell, for 4-story addition, same design as present building, giving floor space of 43,200 sq. ft.; cost \$75,000; install electric elevator, etc. Noted March 6.

W. Va., Charleston—Filling Station—C. C. Lewis will erect \$20.000 salesroom and filling station at 1203 irginia St.

Railways

Tenn., Knoxville—Construction of a railroad 50 mi. long from Sevierville, Tenn., to Haynesville, N. C., is reported planned by Gen. Frank Maloney of Knoxville, in connection with a large timber deal in which Dr. L. H. Stewart and Minor Keith of New York City, Count Arthur Holsteinson of Sweden and Charles S. Hinkley, consulting engineer of New York, are associated.

Railway Shops, Terminals, Roundhouses, Etc.

Ky., Somerset—Southern Railway System. Lauren Foreman, publicity agent, Atlanta, Ga., advises Manufacturers Record the construction of a 210-ft. addition to main shop building and installation of additional machinery is well under way.

Road and Street Construction

Ala., Abbeville—State Highway Dept., Montgomery. let contract to H. H. Bentley, at \$129,483.08, for 20 mi. state road from Abbeville to Houston County line, through Tumbleton and Headland; to J. R. and J. G. Miller, at \$25,144.07 for bridge.

Ala., Ashland—Clay County let contract to Nixon & Phillips, Lineville, for 20 mi. State Highway between Lineville and Cleburne County line.

Ala., Attalla—City receives bids May 19 for 5-in. concrete base, with 2-in. asphalt top on various streets; approximate cost \$177,-000; Ernest Smith, Engr. in charge; J. B. Childress, City Clk. Noted April 24.

Ala., Beatrice—Town plans 1 mi. gravel road through Beatrice; contemplates bond issue. Address The Mayor.

Ala., Birmingham — Birmingham Electric Co. plans paving 5 additional blocks on 1st Ave.

Ala., Clanton—State Highway Dept., Montgomery, let contracts at \$600,000 to grade, construct drainage structures and concrete surface 17.4 mi. road in Chilton County from Shelby County line to Clanton; surfacing, to Speed-Parker, Inc., Louisville, Ky., \$412,532. 35; grading, W. A. Taylor Construction Co., Sylacauga, Ala., \$119,021.36; bridges W. T. Weaver, Collinsville, Aal., \$22,392.20.

Ala., Mobile—State Highway Comn., Montgomery, receives bids until May 26 for 3.87 mi. road between Grand Bay and Mississippi State line, in Mobile County, 40.990 cu. yds. common excavation: 5464 lbs. steel reinforcing in culverts; 40.864 sq. yds. one course cement concrete pavement; plans, etc., from W. S. Keller, State Highway Engr.

Ala., Montgomery—City receives bids May 13 to pave with asphalt, bitulithic concrete, Kentucky rock asphalt, emulsified asphalt, Tarvia double seal, rawhide or Willite process pavement on following: Clayton St. roadway from Five Points to Holt St. and Court St. roadway from Felder Ave. to city limits; plans, etc., from W. A. Cone, City Engr.; J. L. Cobbs, City Treas.

Ala., Prattville—State Highway Comn., Montgomery, plans building Autauga County link of Montgomery-Birmingham Highway from Reese's Ferry to Clanton, via Marbury, Mountain Creek, Verbena and Cooper.

Ark., Russellville—City Commrs. plan 50 blocks paving in residence section in Improvement Dist, No. 4; Floyd Ragsdale, Engr. in charge, Russellville; Sam Davies, Conslt. Engr., Morrilton.

Fla., Boca Ratone—Details under Land Developments.

Fla., Bradentown-Details under Land Developments.

Fla., Howey—Details under Land Developments.

Fla., Jacksonville—City plans paving with asphaltic concrete Post St. from Stocktoa to McDuff; 11th from Main to Pearl and Main from Sth to S. A. L. R. R., with vitrified brick, Belvedere from Avondale to city limits; concrete with bituminous mat. Cherry Ave. from Lackawanna to Forest; Cherry

from St. Johns to point 115 ft. northwest of river bulkhead; Edgewood from St. Johns to point 296 ft, north of river bulkhead; 9th from Pearl to Perry; Pine from Ingleside to Perry; Victoria from Adams to Duval; Williams from Walnut to terminus; Laura from 11th to 12th. Address The Mayor.

Fla., Haines City—Town receives bids May 6 for 43,700 sq. yd. sheet asphalt, asphaltic concrete, brick and asphalt block paving, with curbing, drainage and appurtenances; plans, etc., from Jed R. Yale, Clk.; E. V. Camp and Associates, Engrs., Atlanta, Ga., and Jacksonville, Fla.

Fla., Lake Alfred—City plans expending \$12,000 for about 3 mi, concrete sidewalks. Address The Mayor.

Fla., Leesburg—City let contract to Harry F. Wildman, Orlando, at 67½ cents per lin. ft. for 4000 lin. ft. cement sidewalks, and 40 cents per cu. yd. for 2500 cu, yd. fill.

Fla., Miami—Dade County plans voting on \$2,127.743 bonds for following improvements. New East Dixie Highway, \$300,000; West Dixie Highway, \$225.000; widening causeway viaducts. \$600,000; canal highway, \$39,193; Everglades Ave., \$20,800; Red Road and bridge, \$30,250; West Flagler St. extension and bridge, \$52,500; roads in Dist. No. 4, \$80,000; roads in Dist. No. 5, \$100,000; complete Tamiami Trail and widen Southeast Sth St.. \$400,000; extend North Miami Ave., \$50,000; fair grounds. \$100,000; Armory, \$100,000; Snapper Creek Bridge, \$30,000 Address County Commrs. (Noted March 20,)

Fla., Punta Gorda—Charlotte County Commrs. receive bids until May 6 for 9.54 mi. Road No. 5, Project No. 564-B, local marl of Florida lime rock base on prepared subgrade; plans, etc. from Div. Engr., State Road Dept., Lakeland, Fla., or State Road Dept., Tallahassee.

Fla., Sanford—City plans paving additional 73½ blocks and widening 8 blocks. Address The Mayor.

Fla., St. Petersburg—City receives bids May 5 for following brick pavement: Widen from 40 to 60 ft. 3rd St. from 1st to 2nd Ave., from 20, 38 and 40-ft. to 56-ft. from 2nd to 5th Aves.; widen from 20 to 60 ft. 5th St. from 2nd to 7th; to 50-ft. 1st Ave. from 18th to 29th, and from 29th to 30th; S. S. Martin, Director of Finance.

Fla., St. Petersburg-City votes May 20 on \$1,453,000 bonds for following improvements. Street paving, \$64,000; reconstruct and repair municipal car tracks, \$136,000; municipal street cars, \$135,000; sewers, \$54,-000; sanitary sewers, \$8000; bridge on 3r1 St. across Booker Creek, \$20,000; 4th St. across Booker Creek, \$20,000; on 3rd St. across Salt Creek, \$7000; on 4th St. across Salt Creek, \$7000; on 16th St. across Booker Creek, \$25,000; on Tangier Ave. across Salt Creek, \$6000; storm sewers and drains, \$160,000; enlarge drainage ditches, \$25,000; water-works and water main extensions, \$125,-000; remodel Mound Park Hospital, \$20,000; gas plant and gas mains, \$125,000; nurses' home, \$16,000; develop port, \$500,000; S. S. Martin, Director of Finance.

Fla., Tampa—City plans widening Fortune St. at approach from Tampa side of Hillsborough River. Address the Mayor.

Fla., West Palm Beach—Palm Beach County receives bids May 7 to furnish material, labor, etc., for 3 hard surfaced roads, Nos. 1, 2, 3, in Special Road and Bridge Dist. No. 19, totaling 6.991 mi.; plans, etc., from Chas. H. Holstlaw, County Engr.; Fred E. Fenno, Clk.

Fla., Tampa—City voted \$2,945,000 bonds for following: Lafayette St. viaduct, \$111,000; addition to hospitals, \$250,000; extend

sanitary and storm sewers, \$750,000; extend water mains, \$100,000; Cass St. Bridge, \$325,000; Carew St. Bridge, \$325,000; Fortune St. Bridge, \$250,000; fire stations and extend fire alarm system, \$100,000; incinerator, \$30,000; improve parks and lands, \$125,000; public wharves and sheds, \$75,000; extend Bayshore Drive and seawall, \$250,000; auditorium, \$250,000; Perry G. Wall, Mayor. (Noted March 13.)

Fla., Tallahassee—Details under Land Developments.

Fla., Tampa—Details under Land Developments.

Fla., Tavares—City receives bids May 20 to furnish material, equipment and labor for \$4,000 sq. yds. street paving, with necessary drainage, curb, gutter, etc.; plans, etc., from W. B. Fleagle, Clk., and H. S. Jaudon Engineering Co., Engrs., Elberton, Ga., and Leesburg, Fla.

Fla., West Palm Beach—City plans street improvements; voted \$125,000 bonds. Address The Mayor. (Noted March 27, to vote on bonds.)

Fla., Winter Haven-Details under Land Devolopments.

Georgia—State Highway Dept., East Point, Ga., receives bids until May 2 for 2 sections roads as follows: 1.544 ml. sand-clay and gravel road and 2 timber bridges on Swainsboro-Waynesboro road, Burke-Emanuel Counties, Federal Aid Project No. 387 A, 41,936 cu. yd. common and borrow excavation; 1466 cu. yd. 3½-in. loose clay gravel; 1927 cu. yd. sand clay surfacing; 1.408 mi. clay gravel surfacing on Savannah-South Carolina road, Chatham County, Federal Aid Project 318, 4971 tons compacted clay gravel; plans, etc., from W. R. Neel, State Highway Engr., State Highway Engr., B. P. Whorter, Div. Engr., Savannah, Ga.

Ga., Atlanta—City let contract to McDougald Construction Co., Atlanta, at \$58.000 to pave Edgewood Ave. from Pryor to Boulevard; sheet asphalt, Willite process.

Ga., Forsyth—Board of Bond Commrs. receives bids May 16 for 22,500 sq. yds. concrete pavement, with curb, gutter; 20,00 sq. yds. sidewalks; 2000 lin. ft. storm drains; plans, etc., from J. B. McCrary Engineering Corp., Engr., Atlanta, and City Clk.

Ga., Thomaston—State Highway Dept., Atlanta, Ga., let contract to Scott & Chambers, West Point, Ga., at \$65,915.46 to top soil 7.611 mi. in Upson County and to Bendry & Duggan, Hawkinsville, Ga., at \$27,370 for bridge.

Ky., Stanford—State Highway Comn., Frankfort, received low bid from Hughes & Ware, Lancaster at \$64,366.20 for 6 mi. Lookout Mountain Air Line in Lincoln County.

Ky., Frankfort—Franklin County Fiscal Court receives bids until May 8 for repairing various turnpikes in county. (See Machinery Wanted—Stone.)

Ky., Whitesburg—Letcher County Fiscal Court receives bids until May 10 for 6 mi. Garner-to-Blackey Highway.

La., Arcadia—Louisiana Highway Comn. Reymond Bldg., Baton Rouge, receives bids May 22 for 8 mi. gravel on Arcadia-Natchitoches Highway from Bienville Lane south, Bienville Parish, State Project 341-8; plans, etc., on file; J. M. Fourmy, State Highway Engr.

La., Bastrop—City plans paving portions of Washington and Cypress Sts. Address The Mayor.

La., Homer—Claiborne Parish plans 90 mi. hard surfaced roads; voted \$809,000 bonds; R. Q. Etzel, Clk. Police Jury. (Noted April

La., Lake Charles—Calcasieu Parish Police Jury receives bids until May 6 for Sec. D, Vinton-Orange Highway; plans, etc., from Fred Shutts, Parish Engr.

La., New Roads—Louisiana Highway Comn., Reymond Bldg., Baton Rouge, receives May 13 for .46 mi. gravel surface on Hermitage levee road, 2½ mi. north of Glynn Station, on T. & P. Ry., Pointe Coupee Parish, State Project 404; plans, etc., on file; J. M. Fourmy, State Highway Engr.

La., Pointe a la Hache—Loisiuana Highway Comn., Reymond Bldg., Baton Rouge, La., receives bids until May 13 for 9.4 mi. New Orleans-Fort Jackson Highway, from Buras to Third Road Dist. line, Plaquemines Parish, State Project 346, Sec. C-2; plans, etc., on file; J. M. Fourmy, State Highway Engr.

La., Shreveport—City will receive bids soon to pave Fetzer Ave. from Texas St. to western city limits with Warrenite bitulithic asphalt. Address Mayor Thomas.

Maryland-State Roads Comn, 601 Garrett Bldg., Baltimore, receives bids until May 6 for 6 roads as follows: Baltimore County. mi. macadam resurfacing along Falls Road from Shawan toward Butler, Cont. B-50; Baltimore County, 2 mi. concrete from Baldwin toward Sweet Air, Cont. B-61; Frederick County, .85 mi, sheet asphalt along Market St. from South to 7th, Cont. F-78; Calvert County, .32 mi. concrete through Solomon's Island from end of bridge to Post Office, Cont. C-18; Kent County, 1.95 mi. concrete from end of Cont. K-22 to Pomona, Cont. K-24; Talbot County, .52 mi. concrete along Washington St., Easton, from Bay to Aurora Sts. extended, Cont. T-17; John N. Mackall, Chmn.

Md., Baltimore—Board of Awards received low bids from Aiello Construction Co., Gough and 4th Sts., at \$58,614 for paving with cement concrete 7 streets in Hunting Ridge Development; from Arundel Construction Co., Knickerbocker Bldg. at \$48,051 to pave 11 streets in old city and new annex.

Maryland—State Roads Comn., 601 Garrett Bldg., Baltimore, receives bids in May to improve 11 roads as follows: Caroline County, 1 mi., Burrsville-Delaware road; 1½ mi. road from Federalsburg to Delaware State line; 1½ mi. from Downs Station to Ridgely; Wicomico County, 2 mi. Nanticoke road; 1 mi. between Snow Hill and Salisbury; 1 mi. extension E. Main St., Salisbury; 1/3 mi. from Williards to Railway station; Harford County, 2 mi. Dublin-Whiteford; Anne Arundel County, 1 mi. Curtis Bay road; 2 mi. Davidsonville road; Garrett County, 1½ mi. from Oakland to Hutton; ½ mi. between Oakland and Kitzmiller; John N. Mackall. Chmn.

Md., Baltimore—Board of Awards receives bids May 7 to grade, curb and pave with sheet asphalt on concrete base streets in Cont. No. 256-OANA, 22,200 sq. yds. sheet asphalt; plans, etc., from Paving Comn., R. Keith Compton, Chmn., 214 E. Lexington, St.; Steuart Purcell, Ch. Engr.

Md., Baltimore—Paving Comn., R. Keith Compton, Chmn., 214 E. Lexington St., plans paving with sheet asphalt Granada Ave. from Hawthorne to Ridgewood; Eldorado from Liberty Heights to Ridgewood; Oakford from Eldorado to Garrison; Belle from Eldorado to old western city line, and Hawthorne Ave. from Eldorado to Granada, Forest Park: also Nevada St. from Graveyard lane to ist St. and 1st St. from Nevada Ave. to Maryland, Westport.

Md., Baltimore—Board of Awards receives bids May 7 to grade and pave with concrete cement footways in Footway Cont. No. 76; plans, etc., on file; Mayor Howard W. Jack24.

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All Previous Construction Records in South Surpassed

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\$155,000,000

in contracts awarded first quarter — 1924.

16,043

construction items published in first three months-1924.

\$139,000,000

in contracts awarded first quarter — 1923.

14,462

construction items published in first three months — 1923.

son, Pres. Board; Bernard L. Crozier, Highways Engr.

Md., Baltimore—City let contract to Peter Averza, 2006 Bank St., Baltimore, at \$9681.50 for 5000 sq. yd. cement concrete footways, in Footway Contr. No. 77.

Md., Rockville—State Roads Comn., 601 Garrett Bldg., Baltimore, plans improving 2½ mi. road from Brown's Corner to Ashton; cost \$52,250; Montgomery County to pay half.

Md., Towson—Baltimore County Commrs. let contracts to Ward & O'Connell, New Amsterdam Bldg., Baltimore, for 2 sections of road as follows: 1 mi. concrete roadway on Ridge road, 9500 sq. yd. 15 ft. wide, at \$27,000; ½mi. concrete on Windsor Mill road, 4475 sq. yd. 15-ft. wide, at \$15,500. Noted April 17.

Miss., Port Gibson—Board of Supvrs. let contract to W. C. Stowell, Hazelhurst, Miss., at \$80,114.66 for 6.7 mi. Scenic Highway in 2nd Dist.

Miss., Starkville—Oktibbeha County, Road Dist. No. 1, plans road building; will vote soon on \$25,000 bonds. Address County Computer.

Miss., Woodville — Wilkinson County, 3rd Supvrs.' Dist., plans graveling 3 roads; voted \$75,000, 6% bonds. Address County Commrs. Missouri—State Highway Dept., Jefferson City, received low bids for 17 road projects of Columns. State Project Route 37 Barry

Missouri—State Highway Dept., Jefferson City, received low bids for 17 road projects as follows: State Project Route 37, Barry County, 2 sections; Sec. 9, 3.314 mi. 30-ft. graded earth, from Seligman, north and south, Kelly & Underwood, Granby, Mo., \$17,242.92; Sec. 8, 4.951 mi. 30-ft. graded earth, from Washburn south, Kelly & Underwood, \$24, 803.47; Cooper County, 3 sections; 230-A, 4.827 mi. 34-ft. graded earth, from Kansas City to St. Louis, Haller & Davis, Boonville, \$23,234.35; 230-B, 4.215 mi. 34-ft. graded earth, from Boonville west, Haller & Davis, \$49,761.25; 230-C, 1.890 mi. 34-ft. graded earth, Haller & Davis, \$19,431.47; Route 34, Sec. 31, Benton County, 2.758 mi. 12-ft. gravel, from Cole Camp west, C. L. Johnson, Warrensburg, \$15,887.55; Route 25, Sec. 13, Perry County, 1.940 mi. 16-ft. gravel, from Perryville north, Harold A. Warman, Pitts field, Ill., \$23,792.25; Federal and State Project No. 240-A, 4.994 mi. 24-ft. graded earth, from Marshfield west, C. E. Johnson & Son, Buffalo, Mo., \$40,399.65.

State Project Route 4, Sec. 78, Clark County, 4.019 mi. 16-ft. gravel, from Kahoka east and west, Layton Construction Co., Muscatine, Iowa, \$23,336.47; 74-A, Cedar County, 5 mi. 12-ft. gravel, from Stockton to Fairplay, Newton Construction Co., California, Mo., \$28,970.46; 90-E, Texas County, 2.301 mi. 24-ft. graded earth, from Houston south, Lowing & Lingo, Amy, Mo., \$295.92; Route 39, Sec. 13—Dade County, 1.150 mi. 26-ft. graded earth, from Greenfield south, Critser & Sons, Miller, Mo., \$8536.98; 203-B, Madison County, 1.666 mi. 12-ft. gravel, from Fredericktown west, W. A. Reynolds, Marble Hill, Mo., \$21,102.19; Route 5, Sec. 17, Linn County, 3.386 mi. 30-ft. graded earth. from Linneus to Laclede, C. P. O'Reilly & Co., St. Louis, \$24,280.37; Morgan County. 2 sections: 244-A, .634 mi. 18-ft. gravel, from Otterville west, Cole Jabe, Clarksburg, Mo., \$7687.11; 244-D, 3.553 mi. i8-ft. gravel, from Syracuse east and west, Felix Kiesting, Jefferson City, \$62,418.09; Route 15, Sec. 24, Monroe County, 1.136 mi. 16-ft. gravel, from Paris to Shelbina, C. C. Hayward, Shelbina, \$7938.80. Noted April 10.

Missouri-State Highway Dept., Jefferson City, receives bids until May 6 for 20 road projects as follows: Callaway County, 3 sections from Williamsburg east and west, Federal and State Project 144-Sec. B, 4.981 mi. 18-ft. concrete surfacing, 52,600 sq. yd.; 4.981 mi. earthwork, 31,118 cu. yd. earthwork, 275 cu. yd. concrete in culverts; Sec. C. 4.297 mi. 18-ft. concrete surfacing, 45, 377 sq. yd.; 4.297 mi. earthwork, 25,160 cu. yd. earth excavation, 4648 cu. yd. rock excavation; 274 cu. yd. concrete in culverts; State Project, Route 47, Sec. 21, Franklin County, 1.25 mi. from Washington, east, 18-ft. rock, asphalt or concrete, 3422 cu yd. earth excavation; 13,200 sq. yd. rock asphalt; Federal and State Project No. 90, Texas County, 2 sections, from Dunn to Ca-bool; Sec. F. 2.652 mi. 30-ft, graded earth, 24,110 cu. yd. earth and rock excavation; 1147 cu. yd. concrete in culverts; Sec. G, 2.509 mi. 30-ft. graded earth, 214,555 cu. yd. earth and rock excavation; 177 cu. yd. concrete in culverts; 216-A, Ripley County, 2 sections from Doniphan to Fairdeal; 216-A, 2.756 mi. 24-ft. graded earth, 16,643 cu. yd. earth and rock excavation; 216-B, 2.374 mi. 24-ft, graded earth, 14,056 cu. yd. earth excavation; 69 cu. yd. concrete in culverts;

Route 36, Barton County, 2 sections from Lamar to Minder Mines; Sec. 2, 4.006 mi. 26-ft. graded earth, 22,794 cu. yd. earth excavation; 104.4 cu. yd. concrete in culverts; Sec. 3, 3.463 mi. 26-ft. graded earth, 30,072 cu. yd. in earth excavations; 104.7 cu. yd. concrete in culverts; St. Louis County, 2 sections from St. Louis to Fenton; No. 125, 3.5 ml. 18-ft. concrete; Sec. A, 3.25 ml. earth work; State Route 16, Sec. 34, Webster County, 3.625 mi. 24-ft. graded earth from Fordland to Seymour; Route 25, Sec. 11, St. Genevieve County, 1.8 mi. 16-ft. gravel surfacing on road from St. Marys to South, 29,454 cu. yd. earth and rock excavation; 255 cu. yd. concrete in culverts; Route 82, Sec. 4, New Madrid County, 1.822 mi. 16ft. gravel surfacing on road from Risco east, 23,595 cu. yd. earth excavation; 17,102 sq. yd. gravel surfacing; Cedar County, 2 sections from Stockton east and west; No. 192, 3.453 mi. 12-ft. gravel surfacing, 24,391 sq. yd. gravel surfacing; No. 192-B, 1.5 mi. 12-ft. gravel surfacing, 12,994 cu. yd. earth and rock excavation; 7295 sq. yd. gravel surfacing; Route 32, Sec. 27, Cape Girardeau, 1.269 mi. 12-ft. gravel surfacing, 10,536 cu. yd. earth and rock excavation; 9000 sq. yd. gravel surfacing; No. 110-B, Phelps County, 2.835 mi. 12-ft. gravel from Rolla south, 15,816 cu. yd. earth and rock excavation; 20,089 sq. yd. gravel surfacing; B. H. Piepmeier, Ch. Engr.

Mo., Bethany—City plans paving 3 blocks on Miller St.; will receive bids soon to pave 2 sections of 20th St. Address The Mayor.

Mo., Cape Girardeau—City let contract to McGeorge Construction Co., Pine Bluff, Ark., at \$81,985.56 for 37,000 sq. yds. concrete pavements, and 20,000 lin. ft. curb and gutter. (Noted April 24.)

Mo., Centralia—Board of Aldermen plan paving business district, around city square, and extend paving into residence districts; Benham Engineering Co., Consit. Engrs., Kansas City, Mo.; Arthur Burton, Mayor.

Mo., Chaffee—City let contract to Regenhardt Construction Co., Cape Girardeau, at \$55,850 for 3000 cu. yd. grading, 23,000 sq. yd. reinforced concrete pavement, 3500 ft. curb and gutter. Noted March 27.

Mo., Chillicothe—City will receive bids soon to pave 10th St. from Trenton to Broadway, Broadway from Polk to Calhoun, and east Webster from Elm to Jefferson. Address The Mayor.

Mo., Jefferson City—City plans grading, paving, curbing and guttering Georgia St. from Dunklin to St. Mary's Blvd., and Washington St. from Dunklin to Ashley St.; penetration bituminous macadam paving, cement curb and gutter; H. A. Hall, City Clk.

Mo., Kennett—City plans paving with concrete 4th St. Address The Mayor.

Mo., Maryville—City plans paving W. Thompson and West Lincoln Sts. Address The Mayor.

Mo., Moberly—City plans resurfacing Clark, Johnson and Concannon Sts. with hot sheet asphalt; resurface Reed from 4th to Johnson with brick and asphalt, and widen and resurface 4th from Coates to Rollins; also contemplate improving Rollins St. Address The Mayor.

Mo., Moberly—City plans resurfacing, repairing and widening about 40 blocks paving; Benham Engineering Co., Consit. Engrs., Kansas City, Mo.; Rolla Rothwell, Mayor.

Mo., Springfield—City let contract to Hedges-Weeks Construction Co. for curbing on both sides Prospect Ave., between Chestnut and Central Sts., to F. X. Baron for sidewalks on both sides Loren, between Roznoke and Kimbrough. Address The Mayor.

Mo., Springfield—State Highway Dept., Jefferson City let contract to Springfield Construction Co., at \$48,000 for 2 mi, etension of concrete highway between Springfield and Galloway.

N. C., Asheville — Details under Land Developments.

N. C., Dallas—Town let contract to Reliance Paving Co., Charleston, S. C., at \$20,000 for 10,000 sq. yd. concrete sidewalks. (Noted April 24.)

N. C., Durham—City plans surfacing and resurfacing streets, sidewalks, curbs and gutters, brick, blocks, sheet asphalt, bituminous concrete or bitulithic, on solid foundation; contemplates \$100,000 bond issue; C. B. Alston. Clk.

N. C., Greensboro—City receives bids May 6 to pave 4500 sq. yd. concrete sidewalks, etc.; plans, etc., from G. E. Finck, Highways Engr.; P. C. Painter, City Mgr.

N. C., Wilmington—City Comn, plans paving with Kentucky rock asphalt 3 blocks on 6th St., from Princess to Orange Sts.

Okla., Duncan—Stephens County plans 60 mi. hard surfaced roads in County; \$2,000,000 available; J. A. Carnes, County Clk.

Okla., Okmulgee—Okmulgee County plans paving 30 mi. and graveling 9 mi. road west from present Youngstown highway to Okfuskee County line; hard surface south road east from Morris; Oklahoma City to Tulsa Highway from Beggs north; west from Henryetta to Okfuskee County line; votes May 19 on \$400,000 bonds. Address County Commrs.

Okla., Chandler—L'ncoln county plans hard surfacing 35 mi. Ozark Trail from Creek county line to Oklahoma county line, and road north and south through county; contemplates voting \$1,500,000 bonds. Address County Commrs.

Okla., Ponca City—City plans paving Highland St. Address The Mayor.

S. C., Aiken—City receives bids about May 15 for concrete paying on Main and Curve Sts. and Richland Ave.; R. D. Clowe, Engr., in charge. (Noted April 14.)

S. C., Bennettsville—Marlboro County Commrs, receive bids May 2 for 2 roads as follows: 9 mi, from Ferry Lane near Cheraw to State Line near Osborne, N. C., via White Oak Church, 65,000 cu, yds. common excavation; 1000 cu, yds. gravel, surfacing; 9500 cu, yds. sand-clay surfacing; 6 mi, Blenheim, Brownsville, Marion road, 15,000 cu, yds. common excavation; 3750 cu, yds. gravel surfacing; 4500 cu, yds. clay surfacing; plans, etc., from County Engr.; J. F. Kinney, Jr., Clk,

S. C., Charleston—Charleston County Sanitary & Drainage Comn. plans 3 concrete road projects totaling 23½ mi. as follows: 7½ mi. Meeting St. Road from Blye House road to County line near Summerville; 15 mi. road from end of present concrete road in St. Andrews Parish at 21 mi. post near Meggetts to Edisto River by Adams Run; 1 mi. from intersection of Meeting St. road and Blye House road to County line at Goose Creek Bridge; also build steel bridge across Wappoo Cut, approximate cost \$60,000, and Ashley River Bridge, approximate cost \$200,000; plans selling \$1,100,000 bonds.

S. C., Chester—Chester County Board of Directors receives bids May 13 for 3.263 mi. State Route No. 7, from point about 8 mi. from Chester to 3 mi. from Fish Dam Ferry, 48,335 cu. yds. common and rock excavation; 10,216 cu. yds. topsoil surfacing; 1487 lin. ft. reinforced concrete pipe; 10,742 steel reinforcement; also for creosoted timber bridge of twenty-four 14-ft. spans, 2130 lin. ft. treated piling; 61,216 M.B.M. treated lumber; 100 tons rip-rap, Federal Aid Project

No. 235-A; plans, etc., from State Righway Engr., Columbia, S. C.

S. C., Greenville—City plans widening Dunbar St. from 6 to 10 ft. from Anderson to Calhoun Sts.; W. D. Neves, City Engr.

S. C., York—State Highway Comn., Columbia, S. C., plans improving 4 mi. road between Rowel's and Ft. Lawn.

Tenn., Milan — City plans rebuilding all streets with concrete and asphalt. Address The Mayor.

Tenn., Paris—Henry County plans improving roads, including graveling Atkins Pike. Address County Commrs.

Tenn., Ridgely—City receives bids this week for 13,000 sq. yd. 6-in. concrete pavement, with curbs, culverts, sidewalks, etc.; jlans, etc., from Thos. H. Allen, Conslt. Engr., 1430 Bank of Commerce & Trust Bldg., Memphis; J. S. Riley, Mayor.

Tenn., Savannah—City will receive bids soon for over 17,000 sq. ft. concrete paving, besides crossings; Evans & Meade, Engrs., Florence, Ala.; will issue bonds. (See Machinery Wanted—Cement.)

Tex., Alpine—Brewster County plans 13.88 mi. 18-ft. gravel and caliche road on State Highway No. 3, from Marathon to point 16 mi. west of Pecos County line; estimated cost \$68,650; A. L. White, County Engr.; Jas. A. Burke, County Judge.

Tex., Batesville—Zavalla county plans highway in Precinct No. 1, from Frio county line to La Pryor, via Batesville; votes May 17 on \$125,000 bonds; N. P. Hunt, County Judge.

Tex., Bay City—Matagorda County let contracts for 8.25 mi. 15-ft, shell road on State Highway No. 60, from Matagorda City north, to P. G. Burns, San Bernardino, at \$31,692.06, for grading and surfacing; L. G. Watson, Matagorda, for drainage structures. (Noted March 23, bids until April 15.)

Tex., Belleville—Aust'n county plans grading and constructing bridge on 9.16 mi. State Highway No. 36; estimated cost \$34.500; Herbert Schroeter, County Engr.; W. I. Hill, County Judge.

Tex., Corsicana—City plans paving street leading to County Hospital. Address The Mayor.

Tex., Dallas—City plans widening from 40 to 80 ft, and extending Orange St. from Ross to McKinney Ave. Address the May-

Tex., El Paso—El Paso County Commrs. Court let contracts to El Paso Bitulithic Co., for 2 road projects as follows: North Loop, warrenite bitulithic, at \$132,588.40; Womble Blvd., concrete, at \$67,412.

Tex., Houston—Harris County receives bids until May 12 for Wallisville Road Project; H. L. Washburn, County Auditor.

Tex., Jacksboro—Jack County receives bids until May 23 to grade and construct drainage structures on 16.94 ml. State Highway No. 24, from Palo Pinto County line to Jacksboro, Mineral Wells road, 159,604.2 cu. yd. earth, loose rock, solid rock, borrow and channel excavation; plans, etc., from Guy R. Johnson, County Engr., John D. McComb, County Judge. Noted March 27.

Tex., Lufkin—Angelina County plans 1.78 m'. 18-ft. gravel bituminous road on State Highway No. 40, Federal Aid Project No. 353B; estimated cost \$34,993.88; G. R. Abney, County Engr., J. T. Maroney, County Judge.

Tex., Marlin—City receives bids until May 7 for one course concrete pavement on Winter St., 511.7 cu. yd. earth excavation; 1669 sq. yd. concrete pavement; 1626 lin. ft. curb; W T. Goode, Mayor; Levi Goodrich, City Engr. (Noted March 27, bids until April 2.)

Tex., Muleshoe-Bailey County receives

bids May 14 to clay surface highway; plans, etc., from C. L. Hasie, County Engr.; R. J. Klump, County Judge.

Tex., Orange—Orange County receives bids until May 6 for 2% mi. 5-ft. grade east of Sabine River to connect with 12-ft. grade, completed by Louisiana Highway Comn., on marsh section between Orange and Vinton, La.; will gravel through marsh. Address County Commrs.

Virginia - State Highway Comn., Richmond, receives bids May 13 for 9 road projects, as follows: F-143 C, Route 10, Bedford county, 3 mi. bituminous macadam surface from Bedford east; F-260-B, Route 31, Hanover county, 2.3 mi. sheet asphalt surface on concrete base, from Ashland south, 7860 cu. yd. excavation; 6831 lbs. re'nforcing steel; alternate bids on 8-6-8 in, concrete and 4in, gravel sub-base, 4-in, asphaltic concrete base, and 11/2-in, sheet asphalt top; F-265B, Route 111, Buchanan county, 3.6 mi., 160 ft. bituminous macadam from end of Project 265A toward Raven, 74,681 cu. yd. excavation; 6.970 lbs. reinforcing steel; F-294 B, Route 21, Page county, 1.6 mi. bituminous macadam from 5 mi. east of Luray-Rappahannock county line, 15,600 cu. yd. excavation; 310-C. Route 12, Brunswick county, 3.1 mi, concrete and gravel road from Lawrenceville to Sta. 230-70, 21,000 cu. yd. excavation; 8960 lbs. reinforcing steel; 323-B, Route 20, Charlotte county, 6.6 mi. topsoil Phoenix-Charlotte Courthouse surfacing road; F-333, Route 10, Nansemond county, 8.2 mi, gravel Oakland Church-Suffolk road, 25,000 cu. yd. excavation; F-358A, Route 31, Hanover county, 1.4 mi. sheet asphalt surface on concrete base, on Ashland road north, alternate bids on 18-8-6-8-in, concrete on 4-in., gravel sub-base, 4-in. asphaltic concrete base and 11/2-in. sheet asphalt top, 3572 cu. yd. excavation; F-368, Route 36, Fairfax county, 2.2 mi, from Alexandria, 11/2-in. binder, 11/2-in. sheet asphalt top, 2500 cu. yd. excavat'on; plans, etc. on file and from following Dist. Engrs.; F-143C, Salem; F-260, F-310C and F-35B, Richmond: F, 265B, Bristol: F-294B, Staunton: S-323 Lynchburg; F-333 Suffolk; F-368 Culpeper; H. G. Shirley Chmn.

Va., Alexandria — State Highway Comn., Richmond, appropriated \$75,000 to rebuild 2 ml. highway between city limits of Alexandria and Little River turnpike, in Fairfax County.

Va., Bristol—City plans improving Lawrence Ave. between Vernon and Park Sts.; Jas. Gannon, City Mgr.

Va., 'Rockymount—Franklin County Supvrs. let contract to Charles Turner, Brown Hill Dist., for 2 mi. road from Henry to National Highway.

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West Virginia-State Road Comn., Charleston, let contracts for 6 road projects as fol-Ohio County, pave with brick 7th and Market Sts. intersection, Wheeling, with National road, Consolidated Engineering Co., Wheeling, Putnam County, grade and drain 4.40 mi. Scary-Winfield road, J. O. McDermott & Sons, Ambrosia, W. Va., \$38,337.50; Randolph County, 2.2 mi. bituminous macadam Elkins-Parsons, Branham, Edwards & Dayton, Clarksburg, \$49,230; Mason County, 12 mi, cleaning and cold tar surface treatment. National Bituminous Construction Co., Valley Grove, W. Va., \$9649.38; Putnam County, 6.6 mi. clean and cold tar surface treatment, National Bituminous Construction Co., \$6030; Wyoming County, grade, drain and pave with modified bituminous macadam 4.5 mi. Elmore-Pineville. Rosenbaum Brothers. Pocahontas, Va., \$130,238.

W. Va., Buckhannon—State Road Comn., Charleston, and Upshur county, received low bid from Philips & Withers, Buckhannon, at \$160,000, to grade and bituminous macadam 5.89 mi. Buckhannon-Cleveland road, Meade Dist., 100,000 yds, excavation, 900 yds, concrete, 58,200 yds, macadam, Noted Apr:1 3,

W. Va., Charleston—City plans paving 30 streets as follows: 16 with asphaltic concrete on 6-in. concrete base; 8, with 7-in. plain concrete; 5, with Hillside brick on 5-in. concrete base; 1, 7-in. reinforced concrete with integral curb; John T. Copenhaver, City Clk.

W. Va., Clarksburg—Harrison County Court receives bids until May 5 to grade and construct drainage structures on 3 roads as follows: 1 mi. Clarksburg and Weston pike, from end of concrete pavement on Ten Mile Creek toward Marshville in Ten-Mile Dist.; 1 mi. Clarksburg and Weston pike from end of brick pavement in Lost Creek toward Mt. Clare, in Grant Dist.; 1½ ml. road from Arthur Rhodes' residence up Kincheloe Creek, Union Dist.; build bridge over Ten-Mile Creek on road toward Marshville; plans, etc., from County Road Engr.

W. Va., Clarksburg—City received low bids to pave and improve streets as follows: Broaddus Ave., Thoney Pietro Co., \$6910.25; S. 2nd. T. P. Keenan, \$7145; Hewes Ave., T. P. Keenan, \$8043.50; Milford St., Keeley Construction Co., \$24,043; McDoweil St., T. P. Keenan, \$6080.90; Linden Avc., same contractor, \$6080.90; College St., Thoney Pietro; Dodge Court, C. A. Young; Broadway, Thoney Pietro, \$25,312.50. Address The Mayor.

Mayor.

W. 'Va., Clarksburg—Harrison County, Sardis Dist., plans building 6 roads as follows: 2½ mi. Gregory's Run; 4 mi. road from Coal Dist. line, at head of branch of Katy Lick Run, through Sardis village up Ten-Mile Creek to mouth of Catfish Run; 4 mi, from Twin Bridge up Big Camp road; from Eagle Dist. line on Shinnston-Middlebourne pike near Dolla, up Little Ten-Mile Creek to Doddridge County line; 1 mi. Shinnston-Middlebourne pike, up Big Elk Creek; 1 mi. Shinnston-Middlebourne pike, up Big Elk Creek; 1 mi. Shinnston-Middlebourne pike, up Mudick Run; contemplates voting May 27 on \$380,000 bonds. Address County Commrs.

W. Va., Fairmont—City plans paving Monroe St., between Jackson and High Sts.; Z. F. Davis, Director of Finance; Thomas V. Burkley, Mayor.

W. Va., Fairmont—Marion County Court receives bids until May 22 for 12 sections of roads totaling 26 mi, in Mannington Dist.; plans, etc. from Lee N. Satterfield, Clk., and B. H. Palmer, County Road Engr., Fairmont

plans, etc. from Lee N. Satterfield, Clk., and B. H. Palmer, County Road Engr., Fairmont—W. Va., Fairmont—Marion County Court receives bids until May 20 to grade, drain and pave 11 sections of roads, totaling 15 ml. in Lincoln Dist.; plans, etc., from Lee N. Satterfield, Clk., and B. H. Palmer, County Road Engr.

W. Va., Kingwood — State Road Comn., Charleston, let contracts for 2 sections of roads in Preston County as follows: 3.7 mi. Northwestern Turnpike, F. M. Yeater & Co., Smithfield, \$52,708.10; 5.64 mi., Reedsville-Monongalia Road, Sterling Construction Co., Akron, Ohio, \$74,949.80.

W. Va., Logan—City plans street paving; voted \$12,000 bonds. Address the Mayor.

W. Va., Logan—State Road Comn., Charleston, receives bids May 9 for 2 sections roads in Logan County; 3 mi. Ethel-Stollings road; 2 mi. Huff Creek Junction-Mineral City road; E. B. Carskadon, Sec.

W. Va., Princeton—City plans street improvements; vote June 10 on \$100.000 bonds. Address the Mayor. Noted April 3.

W. Va., St. Albans—City receives bids May
24 to furnish material and grade, curb, pave,
and otherwise improve 1700 sq. yd. on 8th
St. from 6th to Kanawha Terrace; plans, etc.,
Velopments.

from Ernest Bruce, City Engr., Boyd Bldg., Charleston; O. H. Palmer, City Clk.

W. Va., Williamson—Wingo County let contracts for 3 sections of roads as follows: Grade and drain 7.31 mi. Marrowbone Creek road, from Wayne-Wingo County line to point near Wm. Brewer farm, E. C. Price, Huntington, \$42,390; grade and drain 3.35 mi. Buffalo Creek road, from State road on Buffalo Creek to point near Buffalo Thacker Coal Co.'s Store, B. Wellman, Logan, \$26,320.70; 2 mi. bituminous macadam surface on Naugatuck-Nolan road, Sutton Construction Co., Ashland, Ky., \$93,833.

W. Va., Winfield—State Road Comn., Charleston, receives bids May 2 to improve Nitro-Poca road in Putnam County; E. B. Carskadon, Sec.

Sewer Construction

Ala., Birmingham—City, A. J. Flawkins, Engr., opens bids May 20 to construct sewer system. (See Machinery Wanted — Sewer Construction.)

Fla., Bradentown—Details under Land Develoments.

Fla., Howey—Details under Land Developments.

Fla., St. Petersburg—Details under Road and Street Construction.

Fla., Tampa — Details under Road and Street Construction.

Fla., Tampa—Details under Land Developments.

Ga., Boston—City, J. J. Parramore, Mayor, opens bids May 20 for sewer construction. (Noted Jan. 3.)

Ga., Forsyth—Details under Road and Street Construction.

Mo., Cameron—City let contract to Carothers Construction Co., Kansas City, Mo., at \$57.979, for disposal tank, filter beds, pumping station and sewer pipe.

N. C., Asheville—Details under Land Developments.

N. C., Burlington—Burlington Mills, Inc., will receive bids at Chamber of Commerce, until May 6 for constructing about 1½ miles of 8-in. sewer main, 1 mi. 2 and 4-in. water main, and 1 mi. of 6-in. sewer and ¾-in. water service connections; A. C. Linberg. Engr.

Okla., Frederick—City contemplates voting on \$75,000 electric light improvement bonds.

Address The Mayor.
Tenn.. Bristol—Details under Water Works.

Tex., Dallas—City and County Commrs. and J. P. Stephenson will construct trunk sewer to connect city system with Bluff View Estates.

Tex., Winters—City voted \$50,000 sewer bonds; Municipal Engineering Co., Praetorian Bldg., Engrs., Dallas, Tex.

Tex., Waco—City will expend \$55,000 for construction of sanitary sewers. Ben C. Richards, Mayor.

Va., Altavista—Details under Water Works.
Va., Norfolk—City Council appropriated
\$20,300 for improving drainage on Cottage

Toll Road.

W. Va. ,Huntington—City, Board of Commrs. of Streets and Sewers, receives bids until May 9 for lateral sewer; A. B. Maupin, City Engr.

W. Va., Huntington—City, Mayor Chaplin contemplates voting on \$1,000,000 sewer and bridge bonds.

Telephone Systems

Ky., Whitesburg—Cumberland Telephone & Telegraph Co. has franchise to install telephone system; work will begin at once.

phone system; work will begin at once.
N. C., Asheville—Details under Land Developments.

N. C., Raleigh-Marion Telephone Co., increased capital from \$10,000 to \$100,000.

Textile Mills

N. C., Ahoskie—E. J. Gerlock, S. M. Applebaum and others reported interested in establishing cotton mill.

N. C., Burlington—Burlington Mills, Inc., will install sewer and water mains. Details under Sewer Construction.

' N. C., Duke-See N. C., West Durham.

N. C., Swannanoa—Beacon Manufacturing Co., New Bedford, Mass., W. R. Campbell, Asheville, N. C., representative, will begin construction within 60 days of first unit of cotton blanket manufacturing plant; saw tooth type construction; will also erect about 40 dwellings. (Noted April 17.)

N. C., West Durham—Erwin Cotton Mills let contract to Geo. D. Cocker of Cocker Machine & Foundry Co., Gastonia, for indigo dyeing equipment for plants at Duke and West Durham.

Water Works

Ark., Springdale—City will expend \$40,000 in replacing 6-in. cast iron mains with 12-in. mains, Address The Mayor.

District of Columbia—Washington Subur-

District of Columbia—Washington Suburban Sanitary Commsn., 813 Evans Bldg., J. Darby Bowman, Sec.-Treas., advises the Manufacturers Record that a water system will be constructed in College Park and a water line from Hyattsville to Seat Pleasant, besides a number of minor extensions to present water and sewer systems; work to be done by own force under supervision of Engineering Dept; contracts for material let to United States Cast Iron Pipe & Foundry Co., Burlington, N. J., for cast iron pipe, and to Baltimore Clay Products Co., 2113 W. Lafayette Tve., for terra cotta pipe.

Fla. Boca Ratone—Details under Land. Developments.

Fla., Boynton-City, Harry Benson, Mayor, will extend water works system.

Fla., Bradentown-Details under Land Developments.

Fla., Howey-Details under Land Developments.

Fla., Sarasota—Details under Electric Light and Power Plants.

Fla., St. Petersburg-Details under Road and Street Construction.

Fla., Tampa — Details under Road and Street Construction.

Fla., Tampa—Details under Land Developments.

Fa., Tallahassee—Details under Land Developemnts.

Ky., Blackey—Dr. L. Whitaker will expend \$15,000 in construction of 5 water tanks and pipes; install \$7500 machinery, etc. Noted April 24.

Ky., Paintsville—City, J. N. Meek, Mayor, will open construction and machinery bids about July 1 for construction of new water plant; brick building, complete filtration plant in same building, 250,000 gals. capacity; install 250,000 gal. steel tank and 2 large electric or gas driven pumps; also 3 miles of water mains; cost \$70,000; The J. N. Chester Engineers, Pittsburgh, Pa. (Noted April 17.)

Ky., Owensboro—City Commrs. rejected bids for approximately 41,860 ft. of water pipe and will call for new bids. (Noted April 3.)

La., Breaux Bridge—Details under Electric Light and Power Plants.

La., New Iberia—City opens bids May 20 to furnish and install machinery and equipment and other work at water and light plant; consists of furnishing and installing two 275 k.w. alternating current generators direct con-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

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nected to Diesel oil engine, switchboard, two 1000 g.p.m. centrifugal fire pumps, 600 g.p.m. centrifugal pump, 1000 g.p.m centrifugal pump; all pumps direct motor driven; construction of new power house building and a 200,000 gal. reinforced concrete reservoir; J. W. Billingsley, Conslt. Engr., Interstate Bank Bldg., New Orleans, La.; Lawrence F. Villermin, Clk.

Md., Baltimore—Board of Awards received bids from H. A. Kries & Sons Co., 6 W. Lombard St., for motor operated pumps and cast iron piping in Pumping Station No. 1; and W. P. Taylor Co., Ellicott Sq., Buffalo, N. Y., for valves and water boxes.

Md., Ridgeley-Town, J. C. Bond, Mayor, will probably vote on bonds for water and sewers.

Miss., Meridian—City let contract to J. G. McArthur, Meridian, to extend water works pumping station.

Mo., Malden—Malden Compress Co. will construct 100,000 gal. tank on 100 ft. tower. N. C., Asheville—Details under Land De-

N. C., Burlington-Details under Sewer Construction.

N. C., Mount Holly—Town receives bids in about 60 days for water filtration plant; The Carolina Engineering Co., Engrs., 412 Southern Bldg., Wilmington, N. C.

N. C., Weldon—City, W. W. Wiggins, Mayor, receives bids until May 21 to construct water works improvements; Gilbert C. White Co., Engrs., Durham, N. C. (See Machinery Wanted—Water Works Improvements.)

Tenn., Bristol—City votes May 4 on \$35,000 water works bonds and \$25,000 for sewers. L. H. Gammon, Mayor.

Tenn., Grand Saline—City votes May 7 on \$50,000 bonds for water works; V. B. Crosby, Mayor.

Tenn.. Morristown—City votes May 15 on \$300,000 water works and electric light improvement bonds. Address The Mayor.

Tex., Austin—City, let contract to International Filtration Co., Chicago, Ill. for machinery for filtration plant; cost about \$300,000; Major John B. Hawley, Engr., Fort Worth, Tex. (Noted April 24.)

Tex., Cisco—City is having plans prepared by Elrod Engineering Co., 3124 Elm St., Dallas, for \$50,000 filtration plant and standpipe.

Tex., Cottage Grove, P. O. Houston—Town voted \$12,000 water works and \$7,000 street improvement bonds. Address The Mayor.

Tex., Sinton—City let contract at \$43,033 to Kirkwood & Wharton, 231 W. Commerce St., San Antonio, Tex., for water works improvements; E. L. Dalton, Conslt. Engr., Dallas. Tex.

Tex., Yorktown—City contemplates erecting 1,000,000 gal. capacity reservoir; Municipal Engineering Co., Engrs., Praetorian Bldg., Dallas.

Va., Altavista—Town Council receives bids until May 19 to construct filtration and pumping plant, also water and sewer mains; The Ambler Engineering Co., Engrs., Richmond, Va. (See Machinery Wanted—Water Works and Sewers.)

Va., Portsmouth—City votes in June on \$25,000 water works bonds. City Mgr. Jervey.

W. Va., Piedmont—City voted \$30,000 bonds for installing chlorinating and ltration plant and pumping station. Address The Mayor.

W. Va., Rivesville—City is having estimates prepared by Shrewbury B. Miller, Engr., Fairmount, W. Va., for water system with daily capacity 150,000 gals; cost \$41,000.

W. Va., Salem-City voted \$75,000 water

improvement and extension bonds. Address The Mayor.

Woodworking Plants

Md., Baltimore—National Hardwood Flooring Co., Inc., Eastern Ave. and 37th St., capital \$25,000, incorporated by Wm. H. Maclea, Thomas F. Christopher and others.

Md., Baltimore—Reed & Fibre Products Corp., Lexington St. and Calverton Rd., capital \$75,000, chartered by J. J. Rosenthal, Harry F. Rosendale and others; mnaufacture wicker and reed furniture.

Md., Baltimore—Carriage & Toy Co., 636 W. Pratt St., let contract to Consolidated Engineering Co., Calvert Bldg., for \$30,000 building, 4-story, 62x100 ft., brick and wood construction; to replace burned structure. (Noted April 10.)

Miss., Jackson—American Box & Lumber Co., (lately noted incptd., capital \$100,000) organized with W. M. Brokenbrough, Pres.-Mgr.; C. V. Myers, Sec., will expend \$40,000 on following; one 150x100-ft., one 400x60-ft., one 200x12-ft., buildings, 40x30-ft. office and 75x45 boiler house; mill construction, wood, composition and metal roof; install woodworking machinery, electric motors, pattern blowers and piping, plant will be operated by rail system; G. W. Newton, Archt., Bristol. Va-Tenn.

Miss., Osyka — Totten Veneer & Lumber Co., capital \$25,000, incorporated by J. H. Totten, A. G. Williams and others.

Mo., St. Louis—American Ply Wood Co., capital \$150,000, incorporated by Wm. A. Kammerer, 723 Inter Drive St.; Chas. S. Eggeman, 3512 McKean St., and others.

N. C., New Bridge, P. O. Asheville— French Broad Flooring Co., capital \$100,000, incorporated by C. S. Aldrich, C. A. Johnson and others.

S. C., Conway—Veneer Manufacturing Co. will rebuild portion of plant, burned at loss of \$20,000.

Tenn., Mountain City—The Lancaster Manufacturing Co. reported to establish furniture factory.

Tenn., Nashville—Claude P. Street Piano Co., capital \$100,000, incorporated with Roy Warden, Pres.; continue existing business.

Va., Martinsville—Hooker-Bassett Furniture Co., capital \$500.000, incorporated with J. C. Hooker, Pres.; W. B. Dillon, Sec.-Treas.; will establish furniture plant.

FIRE DAMAGE

Ala., Boaz—J. W. Haynes' restaurant, T. W. Wilson's bakery, L. P. Dooley's store; loss \$20,000.

Ala., Lockhart—Lockhart Union Church; loss \$10,000; address Jackson Lumber Co.

Ala., Opelika—Opelika Heading Mills, loss \$30,000; owned by Farley Brothers.

Ark., Garner — Kelley Lumber Co.'s saw mill: loss \$10.000.

Ark., Higinson—Mrs. Leon Stuart's residence; Heber Clark's garage; Chas. Gaston's barber shop and residence; Williams & Ford's store building owned by Mrs. Hattie Maddox.

Fla., Tampa—Arturo Fuente's cigar factory on Francis Ave. and adjoining buildings; estimated loss \$50,000.

Fla., Tampa—Twin City Lumber Co.'s main stock shed; loss \$25,000.

Ga., Atlanta—Greenfield Building, 136 Marietta St.; loss \$10,000.

Ky., Allen—Crawford Hotel; Floyd County Bank Bldg.; Mountain Hotel; warehouse

of Emmons—Hawkins Hardware Co., Huntington; Post Office, Chesapeake & Ohio Ry. Co.'s station, address C. W. Johns, Ch. Engr., Richmond, Va.

Ky., Hickman—Bondurant Cotton Gin; Walker Mill & Feed Co.'s plant; loss not estimated.

Ky., Tolu—Stores of W. R. Rushing, R. H. Lowery & Co., R. S. Dial, and Jno. Nation's hotel; loss \$50,000.

Ky., Wiltmore—Mary Crawford Hall, Glide Hall and power plant at Asbury College; loss \$600,000.

Ky., Whitesburg—Chas, Hall's residence in Norton, Wise County, east of Whitesburg; loss \$30,000.

La., New Orleans—Hortman Lumber Co.'s plant; estimated loss \$180,000, including lumber stored in yards.

La., Shreveport—Pavilion and swine barn at State Fair Grounds; loss \$10,000; address Louisiana State Fair Assn.

Md., Asbestos—Storage house of Congoleum Rug Co.

Mo., Carthage—Chas. Ohler's residence, 6 miles west of Carthage.

Md., Ridgely—Saulsbury Bros.' Inc., can-

ning plant; estimated loss \$100,000.

Mo., Shelbyville—Odd Fellows' Hall, Shelbyville Bank, Walter Dimmitt's store and other buildings; loss \$50,000.

Mo., St. Louis—Lind Building, Seventh St. and Lucas Ave., owned by Frank Lind; loss \$15.000.

Mo., St. Louis—Portion of Hemple Paper Co.'s plant at 1122 N. 13th St.; loss \$15,000.

Mo., St. Louis—Ovo Mill Co.'s building at 305 Main St.; loss \$100,000.

Mo., Shelbyville—Bullding owned by W. T. Dimmitt, jeweler, I. O. O. F. Bldg., and Shelbyville Bank; loss \$40,000.

N. C., Charlotte—Lawings Mattress Manufacturing Co.'s plant; 212 N. Long St.; loss not estimated.

N. C., Lenoir—Palmyra building of Patterson Industrial School for boys.

N. C., Oxford—C. D. Ray & Son's lumber plant; loss not estimated.

N. C., Wallace—Building owned by Dr. Sloan and occupied by G. L. Brown; building of Misses Maggie Carr and Madge Southerland.

S. C., Conway—Veneer Manufacturing Co.'s veneer room, machine shop and grinding room; loss about \$20,000.

S. C., Lancaster—Harry Captain's ice cream plant; loss not estimated.

S. C., Rock Hill—Standard Milling Co.'s plant on W. Main St., also residence of Mrs. S. N. Sowell, 314 Park Ave.; loss not estimated

Tenn., Chattanooga—S. M. Land's residence, 824 Spears Ave., North Chattanooga.

Tenn., Erwin—Residences of Witt Duncan, Miss Annie Love, Beb Lomis, J. R. Jones and Mr. Roberts; loss \$20,000.

Tenn., Mountain City—Clinton's Chapel at Silver Lake. Address The Pastor.

Tenn., Murfreesboro—Tennessee Rubber Co.'s plant; loss \$10,000.

Tenn., Nashville—Rich Printing Co.'s plant at 181 Second Ave., N; loss \$20,000.

Tex., Abilene—Building occupied by Perry Paxton Motor Co. and Gene Morris Auto Painting System at N. 3rd and Walnut Sts.; estimated loss \$100,000; Henry James and Jinks McGee, Owners.

Tex., Greenville—Frank Wolfe's warehouse; loss \$25,000.

Tenn., Rogersville — Dr. Wm. H. Armstrong's residence; loss \$12,000.

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Tex., Clarksville-Clarence Hocker's residence; loss \$15,000.

Tex., Greenville-Frank E. Wolfe Transfer & Storage Co.'s plant; loss \$25,000.

Va., Bristol-W. G. Baylor's residence, W. State St.; loss \$10,000.
Va., Lynchburg-W. P. Moss' residence, Amherst County, 5 miles from Lynchburg.

Va., Richmond-Pickford Hall, the admin-

istration building of Virginia Union University, West Leigh St.; Southern Stock Yards, W. Broad St.

W. Va., Iaeger-Henry Rowe's store, West Virginia Ave.; loss \$12,000.

W. Va., Grafton-C. D. Jacobs Grocery Co.; loss \$15,000.

W. Va., Nallen-Wilderness Lumber Co.'s boarding house; also theatre nad residence. building; granite and brick, 2 stories and basement, 40x100 ft.; Archt. taking bids. (Noted April 10.)

La., New Orleans—Union Indemnity Co. will start work June 1 on 15-story and basement building, Gravier and Baronne Sts.; brick and limestone, fireproof; cost \$1,750,000 to \$2,000,000, including equipment; stores on first floor and in basement; Moise H. Goldstein and Favrot & Livaudais, Hibernia Bank Bldg., all New Orleans, Archts.

Md., Baltimore-Physicians & Surgeons Building, Inc., purchased St. George's Hotel, S. W. cor. Cathedral and Richmond Sts., and will erect \$1,000,000 office building; 8 stories, brick, stone and steel, 250 office suites, emergency operating room, recovery room, lounge, sleeping rooms, etc.; Parker, Thomas & Rice, Archts., Union Trust Bldg., preparing preliminary sketches; Drs. Hugh Young, Monumentand Broadway, A. C. Harrison, 31 E. North Ave., and others, interested.

Md., Havre de Grace—Havre de Grace Bank & Trust Co., Judge Lee I. Hecht, Pres., will erect \$60,000 bank and office building; 2 stories and basement, 40x55 ft., brick and Indiana limestone; Robt. L. Harris, Archt., 13 W. Saratoga St., Baltimore; bids opened April 21.

Miss., Jackson—Mississippi Fire Insurance Co., W. C. Mounger, Sec., will erect 2-story building, Congress and Washington Sts.

Mo., Kansas City-Burnap Stationery & Printing Co., Chas M. Mayers, Pres., 107 W. 10th St., will erect 10-story basement and W. 10th St., will erect 10-story basement and mezzanine store and office building, 1021 McGee St.; 48.6x135 ft., brick, reinforced concrete and granite; Fredk. E. McIlvain, Archt., 10th floor Orear Leslie Bldg., Kansas City; Edwin H. Bradbury, 741 Sheibley Bldg. and 1417 Baltimore Ave., Kansas City, and the foregree transfer of the state of contr. for excavation; call for bids about May 1.

Mo., Kansas City-Jas. M. Rader, 11120 Commerce Bldg., will erect 1-story and basement office building, 43rd and Indiana Ave.; 49x136 ft., brick and stone; Walter A. Bescoke, Archt., 611 Title & Trust Bldg., Kansas City.

N. C., Andrews-First National Bank, J. S. Bradley, Rockmart, Ga., interested, organized with \$50,000 capital and \$15,000 surplus, and will erect \$65,000 4-story building, 1st and Locust Sts.; bank on first floor, offices and roof garden above; radio booth.

S. C., Columbia—State, Thos. G. McLeod. Gov., selected Harold Tatum, Columbia, as architect for State office building, Senate and Sumter Sts.; cost \$500,000, including site; about 58,000 sq. ft. floor space; Malcolm Miller, Sec. Sinking Fund Comsn.

S. C., Greenville—J. G. & F. H. Cunningham, Archts., will erect 3-story building, Coffee and Spring Sts.; English type, half timber, rough texture brick and stone, 3 stories, steam heat, cost \$15,000; 8 offices on second floor draughting room on third. second floor, draughting room on third.

S. C., Greenville—Chamber of Commerce, John A. Russell, Chmn. Bldg. Comm., will call for bids about May 15 for 10-story brick, stone and steel office building, Main St.; cost \$250,-000; Beacham & LeGrand, Archts., Greenville. (Noted Jan. 10.)

W. Va., Huntington-First National Bank, J. L. Caldwell, Pres., will erect \$450,000 annex, 4th Ave. and 10th St.; 60x70 ft., 12 stories, 137 additional offices, 4 high-speed elevators; Meanor & Handloser, Archts., Huntington; bids opened.

W. Va., Huntington-Walter H. Lewis, Pres., Lewis Furniture Co., will erect \$200,-000 Fifth Avenue Arcade Bldg.; 10 stories, 50x185 ft., reinforced concrete with brick and marble finish; connect by passageways

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ala., Avondale (Ind. Station Birmingham) —Avondale Lodge No. 476, A. F. & A. M., and other Masonic lodges will soon start work on \$50,000 temple; 3 stories with stores on first floor, kitchen, lodge rooms, etc.,

Ark., Russellville—Ancient Free and Accepted Masons, W. G. Neal, D. R. Henry and others, Bldg. Comm., will erect \$35,000 to \$50,000 temple; 2 stories and basement; consulting architects.

Ky., Lexington—Phœnix Lodge No. 25, K. of P., W. L. Dawson, Chmn, Bldg. Comm., 321 E. Maxwell St., will probably be ready for bids in 30 to 60 days for 2-story and basement brick building; 44x80 ft.; Arthur Giannin, Archt., care Hendricks, Moore & Co., 417 Georgetown St., Lexington.

Ky., Louisville—Louisville Aerie No. 33, F. O. O. E., W. Brandenburg, Chmn., Bldg. Comm., 812 S. 2nd St., is having plans drawn by Thos. J. Nolan, Crutcher & Starks Bldg., Louisville, for \$125,000 addition to Eagles Club; 2 stories and basement, 60x120 ft., brick. (Noted April 3)

Md., Baltimore-Knights of Columbus, Wm. S. Aumen, Jr., Pres., approved plans of Geo. R. Callis, Jr., 611 American Bldg., Baltimore, for \$1,000,000 clubhouse, Madison and Cathedral Sts., and will probably call for bids within 30 days; (Noted Dec. 27)

Miss., Laurel—Young Women's Christian Assn. plans to purchase and make minor im-provements in Jackson Sanatorium building, instead of erecting \$50,000 building on Oak St., as noted Nov. 22.

Mo., Joplin—Joplin Council, Boy Scouts of America, L. R. Vernon, Scout Exec., will erect headquarters and administration building, camp buildings, swimming pool, stream dams, etc., on 40-acre site 4 miles south of 7th St. and Schifferdecker Ave.; log and rock construction; Earl Van Pelt and Trueman E. Martinie, Archts.-Landscape Gardeners, Jonlin.

Mo., St. Louis—Will Levy, Archt., 625 Locust St., St. Louis, advises no further details regarding proposed \$500,000 Y. M. H. A. building; Gilbert Harris, Exec. Director, 3645 Delmar Blvd. (Noted Jan. 24.)

N. C., High Point-Masonic Building Co. J. E. Millis and others, members, organized with \$100,000 capital and will erect Masonic

Okla., Pawhuska-Wah Shah She Lodge No. 114, A. F. & A. M., rejected bids for 4-story building; John O. Bradley & Co., Archts., Pawhuska, redrawing plans, to be out in 2 weeks; 4 stories, 50x130 ft., reinforced concrete, rubber tile and cement floors, concrete foundation, interior tile, metal doors, ventilators, steel sash and trim, wire glass, tar and gravel roof; cost \$100,000. Noted March

Tenn., Memphis-Knights of Pythias, Geo. H. Guthrie, Pres., Bldg. Comm., will erect \$230,000 building, 138-40 N. 3rd St.; 5 storles, 59x1481/2 ft. brick, terra cotta trim, elevators; stores on first floor, bachelor quarters above. lodge rooms on fifth and probably part of fourth floors; Hanker & Cairns, Archts... Memphis.

Tex., Lockhart-Ancient Free and Accepted Masons are having plans prepared by Ralph H. Cameron, City National Bank Bldg., San Antonio, Tex., for \$50,000 lodge and business building, S. Main St. (Noted Feb. 21.)

Tex., Madisonville-Masonic Lodge plans to organize Masonic Building Assn. of Madi-sonville with W. M. Forrest, O. E. Parten and others, incorporators, and erect temples

Tex., Shamrock-Ancient Free and Accepted Masons will erect \$12,000 building; 2 stories, 25x120 ft., brick, steel and concrete, composition roof, steel sash, metal windows, stone trim, concrete floors; E. H. Eads, Archt., Chickasha, Okla.; date of opening bids not set. Address O. T. Nicholson, Shamrock.

W. Va., Morgantown—Athens Lodge No. 36, K. of P., will erect \$100,000 addition to

Bank and Office

Ala., Birmingham-Richard W. Massey will erect office building, 3rd Ave. and 21st St., and wires Manufacturers Record as follows: "Architect, W. L. Welton (Birmingham); contract not let; now getting bids on 6-, 8- or 10-story reinforced concrete office building, 75x100 ft."

Ala., Birmingham—Alabama Power Co., Thos. M. Martin, Pres., reported to erect \$1,250,000 home office building; 16 or 20

Fla., Tampa-Following contractors estimating on Val M. Antuono office building, bids opened May 15: Adair & Senter, Healey Bldg.; Foundation Co., 101 Marietta St.; Turner Construction Co.; Dwight P. Robinson, care Rawson Collier, all Atlanta, Ga.; Geo. A. Fuller Construction Co., Miami, Fla.; Doullutt & Williams Co., Inc., both Tampa; Stone & Webster, 101 Tampa St.; Carman Co., A. Bentley & Sons Co., Jacksonville, Fla.; Jas. Stewart & Co., 402 Keyser Bldg., Baltimore, Md.; Selden-Breck Construction Co., Fullerton Bldg., St. Louis, Mo.; North Eastern Construction Co., Charlotte, N. C.; E. W. Minter Co Inc., Norfolk, Va.; Franklin O. Adams, Tampa, and Hentz, Reid & Alder, Atlanta, Ga., Archt. (Noted April 24)

Ky., Bloomfield—Citizens Bank will remodel store building for banking quarters; cost \$18,000 2 stories and basement, brick; Thos. J. Nolan, Archt., 517 Crutcher & Starks Bldg., Louisville, Ky., receiving bids.

Ky., Hazard-First National Bank, J. A. Roan, Cashr., is having plans prepared by C. C. & E. A. Weber, 148 Ingalls Bldg., Cincinnati, O., for \$100,000 bank and office

with present Lewis Arcade Bldg.; stores on first floor, offices above; Meanor & Handloser, Archts., Huntington.

Churches

Ala., Ensley—Methodist Church will soon start work on \$50,000 Sunday-school building, Avenue G and 20th St. Address The Pastor.

Ark., Fordyce—Baptist Church will erect \$25,000 addition. Address The Pastor.

Ark., Little Rock—Mt. Zion Baptist Church will erect \$12,000 addition, 708 Cross St.

Ark., Pocahontas—Methodist Church will erect \$25,000 to \$40,000 building; Sunday-school, etc.; work to start about June 1. Address The Pastor.

Ark., Van Buren—Broadway Christian Church, Rev. J. T. Purvis, Pastor, will probably start work about June 1 on main auditorium to seat 600 and 2-story and basement Sunday-school addition; 55x127 ft., pipe organ; cost, complete, about \$37,500.

D. C., Washington—Galbraith M. E. Church, Rev. W. D. Battle, Pastor, 428 Q St. N. W., will alter and erect addition to building 1114 Sixth St., N. W.; 2 stories, 45x102 ft., brick; H. D. Goodson, Archt., Fitch and Castle St., N. E., Washington.

Fla., Oldsmar—Methodist Episcopal Church, Dr. Northrup, Pastor, will erect \$25,000 building, Jefferson Ave.; cruciform shape.

Ga., Sardis — Baptist Church will erect \$12.000 building; brick on ground. Address The Pastor.

Ky., Lebanon—First Baptist Church, Dr. T. J. Foster, Pastor, receives bids about May 15 for brick church and Sunday school; 1 and 3 stories and basement, 79x120 ft.. cost about $\wp .0,000$; Frank L. Smith. Archt., care Combs Lumber Co., 439 E. Main St., Lexington, Ky.

Ky., Louisville—Second Presbyterian Church, Rev. Tennis E. Gouwens, Pastor, 2nd and Broadway, approved preliminary plans for Sunday school and addition to church; 2 stories and basement, brick and stone; cost about \$96,000, including equipment; Arthur Loomis, Archt., Todd Bldg., Louisville.

Ky., Stanford—Christian Church, Rev. Hampton Adams, Pastor, will alter and erect 2-story and basement addition to building; 40x60 ft., brick; H. A. Churchill, Archt., Fayette Bank Bldg., Lexington, Ky.

La., Bogalusa—First Presbyterian Church, Rev. A. H. Ziemer, Pastor, will erect \$20,000 frame building.

La., Lafayette--Methodist Church plans to erect building. Address The Pastor.

Md., Baltimore — Protestant Episcopal Church of Prince of Peace, Walbrook Ave., Rev. Christopher P. Sparling, Rector, adopted plans to enlarge church, including erection of parish house. (Previously noted.)

Md., Baltimore—Olive Branch United Evangelical Church, Rev. A. Morgan Jenkins, Pastor, 5 W. Fort Ave., considers \$100,000 building, Elmira Ave. and St. Cloud St.

Md., Baltimore—St. Mark's M. E. Church, Rev. J. P. Hand, Pastor, is having plans prepared by Clyde N. & Nelson Friz, Lexington Bldg., Baltimore, for \$150,000 Sunday school addition, Garrison and Liberty Heights Aves.; 1 story and basement, stone. (Noted March 6.)

Md., Ellerslie—Methodist Episcopal Church, Hugh Stephenson, Chmn. of Comms., will erect Sunday school and community building.

Md., Gaithersburg—St. Martin's Catholic Church, Rev. J. S. Cuddy, Pastor, considers erecting \$75,000 church and Sunday school

building; 1 story and basement, brick and stone; Geo. Callis, Archt., Hearst Tower Bldg., Baltimore,

Md. Salisbury—Asbury M. E. Church, Rev. Hamilton P. Fox, Pastor, will erect 2-story and basement community hall, N. Division St.; 55x110 ft., stone and steel; Norman Hulme, Archt.; John J. Dull, Asso. Archt., both 1524 Chestnut St., Philadelphia, Pa.; preparing plans.

Miss., Bentonia-Method st Church plans to erect building. Address The Pastor.

Miss., Charleston — First Presbyterian Church, Rev. Henry K. Pasma, Pastor, has plans and specifications by Jas. E. Greene, 809 American Trust Bldg., Birmingham, Ala., for ordinary type building; about 30x60 ft., pine floors, asphalt shingle roof. (Noted Feb. 28.)

Mo., Clinton—First Presbyterian Church, Ralph Door, Member, Bldg. Comm., will probably soon select architect for \$35,000 one-story brick building.

Mo., Springfield—St. Luke's M. E. Church South, Rev. L. M. Starkey, Pastor, plans to erect building adjoining present structure.

Mo., St Joseph—Gooding Methodist Church plans to erect building, South St. Joseph. Address The Pastor.

Mo., St. Joseph — Methodist Episcopal Church Board of Missions has permit for \$25,000 community house, Pryor and Gordon Sts.

Mo., St. Louis—Compton Heights Christian Church, California and St. Vincent Sts., considers erecting building. Address The Pastor.

Mo., St. Louis—St. Peter's Evangelical Lutheran Church, Swan and Newstead Aves., Rev. A. P. Fedderson, Pastor, will erect \$120,000 Gothic type building. Kingshighway and Wichita Ave.; brick with stone and terra cotta trim; 48x76-ft. auditorium to seat 600; Sunday-school in basement; parsonage; Theo. Steinmeyer, Archt.-Constr. Supervisor, St. Louis.

Mo., Springfield—St. Paul M. E. Church, South, W. G. Swingey, care Ozark Metor & Supply Co., Chmn. Bldg. Comm., plans to enlarge main auditorium and erect 3-story Sunday-school section.

Mo., Wellsville—Christian Church plans to erect building or remodel present structure. Address The Pastor.

N. C., Hendersonville—Lutheran Church will erect \$35,000 brick and stone Gothic type building; F. H. & J. G. Cunningham, Archts., Greenville, S. C.

Tex., Taylor—First Methodist Church selected Paul G. Silber & Co., 331 Bedell Bldg., San Antonio, Tex., as architects for \$50,000 building; 3 stories brick and concrete. (Noted April 10.)

N. C., Winston-Salem—New Bethel Baptist Church will erect \$16,000 building, N. Trade St. Address The Pastor.

Okla., Chickasha — Methodist Episcopal Church, Rev. John R. Abernathy, Pastor, is having preliminary plans prepared by Hawk & Parr, Cotton Exchange Bldg., Oklahoma City, Okla., for \$35,000 brick and stone, 2story and basement, 43x100 ft. building.

Okla., Comanche—Methodist Church plans to erect \$25,000 building. Address The Pastor.

Okla., Pawhuska — Christian Church approved plans by Clyde E. Woodruff, Fort Worth, Tex., for \$50,000 Spanish type building, 9th and Prudom Sts.; brick with Eedford or Carthage stone trim. (Noted March 20.)

S. C., Easley-First Methodist Church plans

to erect \$25,000 building on Pendleton St. Address The Pastor.

Tenn., Nashville — Inglewood Methodist Church, Rev. T. W. Nolan, Pastor, organized and will erect \$60,000 building, Jackson Highway and New Masonic Blvd.

Tex., Ennis—Tabernacie Church rejected bids for Sunday-school building and wish separate bids. Address The Pastor,

Tex., Forney—Methodist Church will erect \$40,000 brick and concrete building. Address The Pastor.

Tex., Waco—Elm Avenue Methodist Church, Rev. O. O. Odom, Pastor, will erect \$20,000building, Elm and Turner Sts.

Tex., Waco—Seventh and James St. Baptist Church will not erect building before 2 yrs. (Noted April 10.)

Va., Galax—Methodist Church will erect \$50,000 building; contract let April 24. Address The Pastor.

W. Va., Bluefield—Westminster Presbyterian Church, D. W. Hancock, Chmn. Bldg. Comm., receives bids May 14 for Colonial type brick, stone and concrete building; cost about \$100,000, 3 stories, hardwood, concrete and tile floors, concrete foundation, built-up composition roof, hollow and interior tile, ventilators; separate bids for heating, plumbing and wiring; Herbert L. Cain, Archt., 501 Grace St., Bank & Trust Bldg., Richmond, Va. Address Mr. Hancock. (Noted April 3.)

W. Va., Charleston—First Advent Christian Church, Rev. A. P. Ferrell, Pastor, will erect building.

City and County

Fla., Cocoa—Fire Station—City will soon start work on \$10,000 fire station to accommodate 7 trucks; 5-room apartment and dormitory for 8 men on second floor. Address The Mayor.

Fla., Daytona—Fire Station—City, Stanley C. Archibald, Mayor, will receive bids May 15 for fire station; cost \$10,000; Jacob Espedahl, Archt.-Supervising Engr., Daytona. (Noted Dec. 20.)

Fla., Kissimmee — Library, Community House, American Legion Building—City Comsn., B. B. Doughten, City Mgr., plans to acquire 2 lots for park purposes and erection thereon of public library, community house and building for American Legion.

Fla.. Miami—Fair Buildings, Armory, etc.— Dade County Commrs, plan to call election on \$1,500,000 bonds, including \$100,000 for permanent buildings at fair grounds and \$100,-000 for armory.

Fla., Orlando—Fire Station—City, J. G. Manuel, Commr., will erect \$10,000 fire station on west side; F. H. Trimble, Archt., Orlando; bids opened April 26. (Noted April

Fla., Tampa—Auditorium, Market, Fire Station, Hospitals—City, Perry G. Wall, Mayor, voted \$3,000,000 bonds, including bonds for auditorium, market, fire stations, hospitals, etc. (Noted March 13.)

Ky., Hazard—Courthouse—Perry County, J. A. Smith, Judge, will erect 2-story and basement brick addition in rear of courthouse; C. C. & E. A. Weber, Archts., 148 Ingalls Bldg.. Cincinnati, O.; ready for bids.

Ky., Louisville—Memorial Auditorium— Carrere and Hastings, Shreve and Lamb, 52 Vanderbilt Ave., New York City, have been appointed as Architects for \$1,250,000 Memorial Auditorium.

La., Shreveport— Municipal Auditorium— City, L. E. Thomas, Mayor, voted to purchase site on Grand Ave. for municipal auditorium. Noted April 3.

Md., Baltimore-Park Buildings-Theo.

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Wells Pietsch, American Bldg., Baltimore, is architect for aviary and animal house at Druid Hill Park; bids opened April 30. (Josias Pennington noted Archt, April 24.)

Md., Baltimore—Morgue—Board of Awards, Mayor Howard W. Jeckson, Pres., has low bidat \$67,789 from DeCou & Davis, 6 E. Mulberry St., for city morgue; Geo. R. Callis, Jr., Archt., 18th floor, Hearst Tower Bldg., both Baltimore. (Noted April 17.)

Miss., Cleveland — Municipal Building—City, L. M. Guyges, City Clk., receives bids May 6 for building to house Mayor's office and Fire Dept.

Miss., Waynesboro — Courthouse — Wayne County Board of Supervisors will erect annex to courthouse,

N. C., Asheville — Municipal Building — City, John H. Cathey, Mayor, will advertise for bids within 10 days for reinforced concrete building to house city market, fire and police stations and jail; 2 stories and subasement, fireproof; cost about \$200,000; Ronald A. Greene, Archt., Oates Bldg., Asheville. (Noted March 13.)

N. C., Durham—Home—Durham County Board of Commrs., H. L. Carver, Chmn., receives bids May 6 for erection of county home; 2 stories, brick, 2 wings, cost about \$100,000; plans and specifications from G. Murray Nelson, Archt., Durham and Raleigh, N. C. Noted April 3.

Va., Wise-Detention Home-Wise County Board of Supervisors, R. R. Roberts, Clk. of Court receives bids May 13 for construction on poor farm, of detention home for dormitory, utilit'es building and accessories; stone foundations, face brick and hollow tile, marbleoid and edge grain yellow pine floors, concrete for porch floors, steps, basement and laundry floors, asphalt shingle roofs over heavy felt, steel sesh and detention type outside doors, independent lighting and pumping plant and storage tank, loom wiring for electric lights and power; alternate bids desired for outside walls of sandstone from immediate vicinity: hammer face work; plans and specifications, etc., from R. B. Mc Geckin, Archt., Big Stone Gap, Va. Noted March 27.

W. Va., Charleston—Detention Home—Kanawha County will erect juvenile detention home, probably Clendenin and Kanawha Sts. Address County Commrs.

W. Va., Clarksburg—Courthouse—Harrison County Commrs. considering voting May 27 on proposition to float \$1,000,000 bond issue for new courthouse.

W. Va., Kingwood—Jail—Preston County Commrs, selected Carl Roger, W. Va. Utilities Bldg., Morgantown, W. Va., as architect for \$100,000 jail on courthouse square: faced with Kingwood stone, fireproof, 3 stories and basement, 42x100 ft., cement and oak floors. concrete and stone foundation, Spanish tile roof. Noted April 3.

Dwellings

Ala., Marion—Col. Chas. C. Johnson. Supt. City Schools, and Jas. H. Edwards purchased lots on Judson College grounds; will remodel present tenant houses and erect additional ones.

Ala., Parrish-J. A. Bryan will erect number of dwellings.

D. C., Washington — Admiral Cary T. Grayson, 1600 Sixteenth St., N. W., will remodel residence and erect garage, Wisconsin Ave., N. W. 2½ stories and basement, stone and frame, cost about \$25,000; Peabody Wilson & Brown, Archts., 140 E. 39th St., Washington.

Fla., Bradentown—Mrs. Cora B. Warner, Tampa, Fla., purchased site, Palma Sola Drive, and will erect residence.

Fla., Daytona-Mrs. Edyth G. Tydings,

Ocala, Fla., purchased site, Ormond Terrace, and will erect summer residence.

Fla., Pompano—Jess Hogan will erect \$10,000 residence.

Fla., Tampa—B. S. Robertson, Magnolia Ave., will erect residence in Westwago; plans drawn.

Fla., West Palm Beach—T. M. Cook, Pres., Commercial & Savings Bank, will erect 2story Spanish type residence on lake front.

Fla., West Palm Beach—Lauenborg Building & Investment Co., A. H. Lauenborg, 608 Citizens Bank Bldg., will erect 20 dwellings; cost \$3500 to \$10,000 each; owner builds.

Ky., Covington—Geo. Lisferth, 15 E. 11th St., will erect \$12,000 duplex residence; 2 stories and basement, about 29x55 ft., brick; drawing plans; C. L. Hildreth, Archt., 20th and Mullen Sts., Covington, will receive bids.

Ky., Craftsville—Ben Franklin will erect residence; contract May 12.

Ky., Christopher—E. B. Newberry will erect six \$2000 dwellings in Karles; contract in 2 weeks.

Ky., Lexington—Edw. Wiest, 455 E. Maxwell St., will erect \$11,000 brick veneer residence, Ashland Park; 2 stories and basement, 33x34 ft.; H. A. Churchill, Archt., Fayette Bank Bldg., Lexington; receiving bids.

Ky., Louisville—A. C. Link, Sec., Tafel Electric Co., 329 W. Main St., will erect \$10,000 residence 39th St. near Market.; 2 stories and basement, 30x36 ft., stucco on fabricated metal lath; Hillerich & Gatoff, Archts., 306 Republic Bldg., Louisville, taking bids.

Ky., Louisville—Katherine F. Gernert will erect \$14,000 residence, Eastern Pkwy. and Hilltop Rd.

Ky., Louisville—Highland Building Co. will erect \$10,000 dwelling, 2107 Sherwood St.

Ky., Louisville—Will B. Mitler will erect \$3500 dwellings, 4136, 4142 and 4144 W. Walnut St.

Ky., Louisville—Bishop Realty Co. will erect 4 frame dwellings, 610-16 S. 35th St.

Ky., Louisville—J. T. Boone will erect \$11,-000 brick veneer residence, Woodford Place.

Ky., Louisville—J. T. Dorsey will erect four \$6000 frame dwellings, 715-21 S. 40th St.

Ky., Louisville—L. Jacobson & Son will erect 13 frame dwellings, S. 40th St.; total cost \$32,000.

Ky., Louisville—Albert McMillen Co. has permits for 4 frame dwellings, 1705-11 Gaulbert St.

Ky., Louisville—E. A. Rothchild will erect \$15,000 brick veneer dwelling, 2110 Eastern Parkway,

Ky., Mater—Elkhorn Coal Co. will erect 20 miners' houses at Kentucky River head-quarters; contract in 2 weeks.

Ky., Maysville—S. D. McDowell is preparing plans for \$15,000 brick residence; 2 stories and basement, 31x42 fe.; owner withheld

Ky., Whitesburg—Hazard-Jellico Coal Co. will erect 12 miners' houses; contract in 2 weeks.

Ky., Whitesburg-K. N. Salyer, Jeff, Ky., will erect \$10,000 residence.

La., New Orleans—Albert H. Cobb plans double 2-story dwelling, Bienville and Conti Sts.

La., New Orleans—J. E. Vergnes, 509 Tulane Newcomb Blvd., will erect 4 cottages, N. Rocheblave, Music and Arts Sts.; total cost \$12,000. La., New Orleans—H. J. Betzer, Archt., 730 N. Claiborne St., New Orleans, advises knows nothing of \$12,000 bungalow, N. Galvez and Roberts Sts., for Mrs. I. Lazarus. Noted April 24.

La., New Orleans—A. A. Marchall will erect \$20,000 residence, Nashville Ave. and Prytania St.; 2 stories and basement, frame and stucco; Weiss & Dreyfous, Archts., New Orleans.

La., New Orleans—H. B. Mathews is taking estimates on 2-story frame and brick veneer residence; wood floors, concrete foundation, slate roof; Jones, Roessle & Olschner, Archts, Maison Blanche Bldg., New Orleans. (Noted April 24.)

· La., New Orleans—Mrs. Peter Stock is taking estimates on 2-story frame and stucco residence, concrete foundation, slate roof; Jones, Roessle & Olschner, Archts., Maison Blanche Bldg., New Orleans. (Noted April 24.)

La., New Orleans—E. W. Ullrich is taking sub-bids on 10 frame dwellings; 1 story, 25x 80 ft., pine floors, brick and concrete foundation, slate or composition shingle roof; plans and construction by owner. (Noted April 24.)

La., New Orleans—M. Goldberg will erect 4 double cottages, 7221,23 Ester St., 315-17 and 302-04 Pine Sts.; total cost \$15,000.

La., New Orleans—Nicolo Perniciaro, Forstall St., near Chartres St., will erect 4 cottages on Tricon, Marais and Delery Sts.; work to start within 40 days.

La., New Orleans—Chas. H. Jerris plans to erect single cottage, St. Louis St. near Toulouse St.

La., New Orleans—G. O. Selle, 612 Bartholomew St., will erect duplex dwelling, Jefferson Place and Desire St.; work to start in 90 days.

La., New Orleans—Ben Lewis will erect double cottage, Willow St. near 2nd St. Md., Baltimore—Jas. C. Bryne, 213 St.

Md., Baltimore—Jas. C. Bryne, 213 St. Paul St., will erect 8 two-story brick dwellings, S. side Presstman St. E. of Hillen St.; 18x34x27 ft.; total cost \$25,000.

Md., Baltimore—Gallagher Realty Co. will erect 4 two-story brick dwellings, 509-15 Shendau Ave.; 22x32x28 ft.; total cost \$16,-000.

Md., Baltimore—M. J. Cremer will erect 1½-story, 24x32x28-ft., bungalow, 5117 Belleville Ave. and 2 N. side Groveland Ave. E. of Crawford Ave.; 24x32x28 ft., total cost \$10,000.

Md., Baltimore—Edw. Morris Construction Co. will erect 3 two-story brick dwellings, Auchentoroly Terrace near Mondawmin Ave.; 48x90x25 ft.; total cost \$30,000.

Md., Baltimore—Jas. Peters will erect 8 two-story brick dwellings, 1200-14 W. 41st St.; total cost \$20,000.

Md., Baltimore—J. Elmer Weisheit, 125 E. Baltimore St., will erect 3 dwellings, N. E. cor. Hollen Rd. and Widener Ave., 7 at N. E. cor. Hollen Rd. and Yorkshire Drive and 10 S E. cor. Cedarcroft Rd. and Yorkshire Drive. (See Md., Towson.)

Md., Baltimore—Gammacine & Zonetti will erect 3 one-story frame dwellings, N. side Frieda Ave. W. of Chopanoke Ave.; 26x28x22 ft.; total cost \$10,000.

Md., Baltimore—L. P. Kimball, 2907 Chelsea Rd., will erect \$16,000 frame residence, W. side Wendover Rd. N. of Underwood Rd., Guilford, 28x39x34 ft., 2 stories.

Md., Baltimore—Philip S. Morgan, 514 St. Paul St., will erect 16 frame dwellings and garages, Liberty Heights Ave., near Hamilton Ave. and 40th St. near Liberty Heights Ave.; total cost \$75,000.

Md., Baltimore—Welsh Construction Co., 11 E. Fayette St., will erect 6 two-story frame dwellings, S. side Stonington Ave. near Belleville Ave. and 2, S. side Belleville Ave. near Oxford Ave.; 26x31x20 ft.; total cost \$25,000.

Md., Baltimore—C. H. Luerssen, 33 Southern Ave., will erect 5 two-story hollow tile dwellings, N. W. cor. Schley and Grindon Aves.; 24x12 ft.; total cost \$15,000.

Md., Baltimore — Northwest Real Estate Co., Morris Bldg., will erect 2½-story cottage, 3211 Dorchester Rd., and 1½-story bungalow, 3704 Edgewood Rd.; 27x28 ft. and 24x27 ft., frame; total cost \$15,000.

Md., Baltimore—Westphal & Schoenhals, Munsey Bldg., will erect 22 two-story brick dwellings, 5100 block Queensbury Ave., 20 at 2300-14, 2400-14 and 2500-06 Oakley Ave.; each 21x34x24 ft.; total cost \$125,000.

Md., Hagerstown—H. Evans will erect \$10,000 brick and stucco residence; 1½ stories, 28x32 ft.; H. E. Yessler, Archt., Schmidt Bldg., Center Sq., York, Pa.; bids opened May 1.

Md., Hyattsville—H. A. Boswell considers erecting \$12,000 frame residence; 1½ stories, 28x35 ft.

Md., Towson—J. Elmer Weisheit, 125 E. Baltimore St., Baltimore, Md., purchased 10-acre trace on Chesapeake Ave. and will develop into cottage community plans by Roland Park Co., 332 N. Charles St., Baltimore; Mr. Weisheit will also erect 20 dwellings in Baltimore.

Miss., Gulfport—L. L. Chevally and Thos. Fursden will erect 5 bungalows in West Beach.

Miss., Jackson—North View Realty Co. will erect number of brick flwellings in North View Addition.

Mo., Chillicothe—Frank Batta and Victor Gladiux will erect 3 bungalows on W. Jackson St.

Mo., Clayton (Ind. Branch St. Louis)— Erwin Harms, 6683 Washington Blvd., University City, Mo., will erect \$30,000 residence and garage, Southmoor St.; 2 stories, 35x45 ft., brick and stone; Corrubia & Henderson, Archts., Arcade Bldg., St. Louis, receiving bids.

Mo., Independence—Wm. Mastin will erect 2 frame dwellings, Crysler St.

Mo., Jefferson City—Martin Gipfert will erect 10 dwellings in Washington Park,

Mo., Kansas City—A. E. O'Hare will erect residence, 5428 Harrison St.

Mo., Kansas City—Rutledge Building Co., will erect 6 dwellings, 7128-34-36-37-41-43 Washington St.

Mo., Kansas City—Harold Webster, Mgr., Duncan Shingle & Lumber Co., 723 N. Y. Life Bldg., 3834 Wyandotte St., will erect \$17,000 residence; U. G. Charles & Co., Archts., Schweiter Bldg., Wichita, Kan.; bids opened April 29.

Mo., Kansas City-P. D. Arnold will erect dwellings, 6700-6704 The Paseo.

Mo., Kansas City-Wells Bros. will erect 5 dwellings, 5427-29-31-35-37 Euclid St.

Mo., Kansas City—Edw. O. Bockelman will erect dwelling, 5129 Prospect St.

Mo., Kansas City-John Carriber will erect duplexes at 1818 Myrtle and 1601 Topping Sts.

Mo., Kansas City—Leo Collins will erect dwellings, 4312-14-16-45-47, 4418-20-22-24-26-27-28-30-31-33-39 Flora St.

Mo., Kansas City—Houx & Spicer will erect dwelling, 2010 Houston St.

Mo., Kansas Cify-E. E. Huber will erect dwelling, 4015 Michigan St.

Mo., Kansas City-J. E. Lasiter will erect dwellings, 6130-36 Tracy St.

Mo., Kansas City-J. H. Wood will erect residence, 5900 Holmes St.

Mo., Kansas City-Carl Zellar will erect residence, 6327 Main St.

Mo., Moberly—J. B. Jennings will erect \$20,000 brick and hollow tile residence, Gilman Rd.; 2 stories, 30x50 ft., stone trim; Ludwig Abt, Archt., 114½ N. Williams St., Moberly.

Mo., Sedalia-B. J. Holt will erect 2 frame dwellings, 715 W. 2nd St.; cost \$6000 each.

Mo., Sedalia-W. E. Taylor will erect brick bungalow, 16th and Sneed Sts.

Mo., Springfield—Dave Schwab will erect \$16,000 brick veneer residence, Pickwick and Catalpa Sts.

Mo., Springfield-W. H. Kuhlman will erect residence, 300 block S. Fremont St.

Mo., Springfield-D. Van Wormer will erect residence, 1501 N. Grant St.

Mo., Springfield—O. F. Williams, 1048 Belmont St., will erect residence.

Mo., Springfield—Geo. T. Winters will erect residence, 700 block Grand St.

Mo., Webster Groves—Mrs. Carrie E. Close, care Dan H. Mullen Co., Bank Bldg., Clayton, Mo., will erect \$24,000 residence and garage, Lockwood and Rock Hill Rds.; 2½ stories, 38x36 ft., brick; taking bids.

N. C., Greensboro—A. K. Moore Realty Co. plans to erect 30 dwellings this year in connection with development of 214-acre tract, beginning at West Market Terrace south along Friendly Rd.

N. C., North Wilkesboro—C. E. Jenkins will erect brick residence, 9th and D Sts.

N. C., Swannanoa—Beacon Manufacturing Co., Providence, R. I., will erect 40 to 50 employees' dwellings in connection with plant development.

N. C., Winston-Salem—B. F. Huntley will erect hollow tile dwelling, Jersey Ave.; $2\frac{1}{2}$ stories, 12 rooms, metal ceilings, hardwood floors, ornamental terra cotta, cost about \$40,000; Chas. Barton Keen, Archt., 1218 Chestnut St., Philadelphia, Pa., and Winston-Salem; possibly construction by owner.

N. C., Winston-Salem—C. C. Smithdeal will erect \$10,000 residence, Elizabeth Ave.; 7 rooms.

S. C., Columbia—Miss Martha Dwight will erect brick and frame residence, 1714 Divine St.; Arthur W. Hamby, Archt., Columbia; receiving bids.

S. C., Columbia—Holly Rea!ty Co. will erect 2 dwellings; J. Carroll Johnson, Archt., Columbia.

S. C., Columbia-J. Roy Pennell will erect 2-story brick veneer residence. Oakwood Court; slate roof; Lafaye & Lafaye, Archts., Columbia; will soon call for bids

S. C., Greenville—F .W. Brown will erect \$10,000 residence, Mills Ave. and Elm St.; 22x44 ft.

S. C., Lake City—Methodist Church will erect \$8000 to \$10,000 parsonage; R. F. Joyner, S. J. Sturgeon and others, Bldg. Comm.

Tenn., Memphis—W. C. Chandler purchased tract South Parkway and S. Wellington St. and will expend \$35,000 for improvements; erect number of bungalows.

Tenn., Memphis — Clarence Henochsberg purchased site in Hein Park sub-division and

plans to erect residence.

Tenn., Memphis—R. L. Brent will crect duplex bungalow, Walker Ave. and Kyle St.

Tenn., Memphis—R. G. Craig will erect residence, Stratmore Place.

Tenn., Memphis—W. J. Galloway will erect English bungalow in Longview. Tex., Dallas—W. O. Barnett will erect 3 brick veneer cottages, 3010-14-19 Kinmore St.; 5 rooms, cost \$4500 each.

Tex., Dallas—Metropolitan Co. will erect 2 brick veneer dwellings, 4327-28 Vandebilt St.; 7 rooms; total cost \$12,000.

Tex., Dallas—W. B. Morgan will erect \$12,500 residence, 6668 Avalon St.; 8 rooms, brick veneer.

Tex., Port Arthur—W. A. Martin, Martin Lumber Co., will erect \$17,500 residence; 2 stories, brick and concrete; Geo. R. Faircloth, Archt., Port Arthur.

Tex., San Antonio—Sam C. Bennett will erect 2 five-room dwellings, Magnolia St.

Tex., San Antonio—O. W. Hardy, 121 E. Waco St., will erect 2-story frame residence, Woodlawn Place.

Tex., San Antonio—Dr. E. M. Sykes will erect brick and stucco residence, Terrell Hills; Alfred Giles & Co., Archts., San Antonio.

Va., Richmond—Saml. H. Baker will erect 10 dwellings, Midlothian Turnpike and 36th, 37th and 38th Sts.; cost about \$45,000; 6 rooms, electric lights, pipeless furnaces, etc.; Mr. Baker will also erect 2 dwellings in Stonewall Courts, cost \$15,000, and \$25,000 dwelling in Hampton Gardens; plans by owner.

Government and State

Fla., Jacksonville—Post Office—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., receives bids May 9 for extensions to lookout galleries in post office; drawings and specifications from Custodian at site or from office Supervising Archt.

D. C., Washington—Post Office—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., has low bid at \$39,442 from Virginia Engineering Co., Inc., Newport News, Va., for post office, including mechanical equipment. Noted April 17.

Miss., Holly Springs—Post Office—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., is reported to consider erecting \$43,500 post office building.

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Mo., Liberty—Post Office—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., receives bids May 15 for construction, including mechanical equipment, of 1-story brick and tile, non-fireproof, post office building, about 62x64 ft.; drawings and specifications from Custodian at site or from office Supervising Archt.

Tenn., Franklin—Post Office—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., is reported to erect \$50,000 post office building.

Va., Norfolk—Post Office—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., receives bids May 21 through P. O. Inspector W. J. Dixon, Richmond, Va., on proposition to erect and furnish 2-story fireproof building, at least 30,000 sq. ft. floor space, to be leased to Government.

Hospitals, Sanitariums, Etc

Ala., Fairfield—Tennessee Coal, Iron & Railroad Co. is reported to have appropriated \$100,000 for additional equipment for electro-therapy dept. at Employees' Hospital.

Ala., Florence—Eliza Coffee Memorial Hospital, J. J. Mitchell, Chmn., reported ready for bids on nurses' home; cost \$10,000. Noted March 13.

Fla., Miami Beach—Mahi Temple, A. A. O. N. M. S., Miami, John B. Orr, Potentate, plans to erect hospital-sanitarium for crippled children.

Fla., St. Petersburg-City, S. S. Martin,

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Director of Finance, will vote May 20 on \$1,453,000 bonds, including \$20,000 for remodeling Mound Park Hospital and \$16,000 for additional nurses' home.

Fla., Tampa—City, Perry G. Wall, Mayor, voted bonds to erect Gordon Keller Hospital and additional ward for hospital for negroes; noted March 13. (See Buildings Proposed—City and County.)

Ky., Louisville—Waverly Hills Tuberculosis Sanatorium, Dr. Oscar Miller, Supt., 2910 High St., will break ground May 12 for Bldg., Louisville; H. C. Wright, Consit. Engr., 289 Fourth Ave., New York City. Noted Nov. 20.

Ky., Pikeville—United States Veterans' Bureau, J. Ernest Price, Exec. Officer, Constr. Div., Arlington Bldg., Washington, D. C., advises all bids for buildings for trachoma hospital have been rejected. (Noted April 3.)

Miss., Gulfport—United States Veterans' Bureau, Frank T. Hines, Director, Arlington Bldg., Washington, D. C., reported to expend \$75,000 for additions and improvements to U. S. Veterans' Hospital, including extension to dining hall, installation of outside lighting system, supply storehouse, building roads and paths, etc.; Wm. Wilby, Selma, Ala., has contract at \$8974 for steam heating equipment for isolated buildings.

Tennessee—Baptist State Convention, Nashville, Tenn., will erect \$500,000 hospital in East Tennessee.

Tex., Snyder—Scurry County defeated \$75,-000 hospital bond issue. (Noted March 13.)

Tex., Sulphur Springs—City and Hopkins County, Mr. Bertram, County Judge, considers erecting city-county hospital; will probably vote bond.

Va., Lynchburg—Virginia Baptist Hospital, O. B. Barker, Pres., is having plans prepared by Stanhope S. Johnson, Lynchburg, for 3-story and basement brick nurses' home; slate roof; accommodate 50 to 60. (Noted Arpii 24.)

Hotels and Apartments

Ala., Florence—F. A. Downs, representing Hockenbury System., Inc., Harrisburg, Pa., has presented question of erecting \$300,000 hotel.

Ala., Uniontown—Jno. Robertson, W. T. Buck and W. L. Desear compose committee appointed to formulate plans for erecting hotel.

Fla., Daytona—Daytona Building Co. has leased property on Beach St. and contemplates erecting \$50,000 apartment.

Fla., Lake Worth—Bob White of Bob White Homes Co. contemplates erecting \$15,000 6-suite apartment building, Spanish type; will be named Alcazar; tile floors and bath.

Fla., Live Oak—J. R. Randle, lessee of Callahan Hotel, Bainbridge, Ga. has purchased Suwannee Hotel and will expend \$15,000 for improvements.

Fla., Miami—E. E. Spainhour has plans in progress by W. F. Brown, Miami, for 3-story, 18-apartment building, Sixth St. and Euclid Ave.

Fla., Miami—Morrison-Jesse Properties contemplate erecting \$32,500, 8-suite, 2-story. cement block apartment, N. E. 24th St and 6th Ave.; Lee Wade, Archt., Miami.

Fla., Mlami—Wm. Vandeviere contemplates erecting 2-story cement block apartment, Northwest Third St., between 8th and 9th Aves.; F. E. Moore, Archt., Mami.

Fla., Miami—W. B. Ector has plans in progress by R. A. Preas, Miami, for 2-story apartment building; 40x70 ft., concrete block, \$14,000, 2 apartments and 2 stores on first floor and 4 apartments above.

Fla., Okeechobee—H. I. Magid and associates, Miami, are reported contemplating erecting 100-room, 3-story, Spanish design hotel.

Fla., Tampa—Louise Pearce contemplates erecting \$20,000 apartment, 1012 S. Dakota Ave.

Ga., Atlanta—E. M. Willingham contemplates erecting \$55,000 2-story and basement brick veneer apartment, 295 E. Fourth St.

La., New Orleans—Guarantee Development Co., Inc., Granville Sewell, Adv. Mgr., contemplates erecting 600-room, 17-story addition to Hotel Roosevelt; following contractors have received plans and specifications: Geo. A. Fuller & Co., New York City; Selden Breck Construction Co., St. Louis, Mo.; Gauger-Korsmo Construction Co., Memphis, Tenn.; Doullut & Williams, Inc., Geo. J. Glover and C. A. D. Bayley, all New Orleans; Rudolph Herpitch, Conslt. Engr., and Perry L. Moses, Conslt. Decorator; Toledano, Wogan & Bernard, Archts., Title Guarantee Bldg., all New Orleans. Noted Feb. 28.

Md., Baltimore—Commonwealth Realty Co., Equitable Bldg., contemplates erecting \$45,-000, 3-story brick apartment, n. w. corner Garrison and Forrest Park Aves.; 80x116x38 ft.

Mo., Kansas City—Jno. E. Dunn, Dunn Electric Co., 3809 Washington Ave., has plans by J. F. Thompson, 615 Massachusetts Bldg., Kansas City, for \$100,000, 4-story and basement, brick apartment building, 12th and Euclid Sts., 30x320 ft.

Mo., Kansas City—Fisher Building Co. contemplates erecting \$35,000 3-story apartment, 3006 Tracy St.

Mo., Kansas City—A. I. Morris contemplates erecting \$25,000 4-story apartment, 1317 Troost St.

Mo., St. Louis—Hotel Jefferson Co., Lyman T. Hay, Pres. Treas., contemplates creeting 13-story, 400-room addition to Jefferson Hotel.

N. C., Charlotte—Jno. A. McRae and W. L. Nicholson have purchased building at East Fourth and South Myers St. and will convert into four 4-room apartment building; \$10,000.

N. C., Greensboro—Rev. E. Frank Lee contemplates erecting \$20,000, 20-room, brick and tile apartment, 517 Simpson St.

Okla., Ponca City—J. T. Myatt has plans in progress by H. R. Vorheis, 208 S. 1st St., Ponca City, for \$100.000, 3-story and basement brick hotel and store building; 100x 140 ft.

Tenn., Nashville—Dr. Paul DeWitt contemplates erecting \$35,000, 3-story, brick and concrete. 6-apartment building, 1606 Eighteenth Ave.

Tex., Dallas—Geo. R. Crump contemplates erecting \$10,000, 16-room, frame, 4-apartment building, 4204-06 Lemmon St.

Tex., Dallas—Arch G. Dedinger will soon start constructing \$35,000, 20-room, brick veneer, 4-apartment building, 4233 Irving St.; Sadler & Russell, Archts., Dallas. Construction by owner. Noted April 24.

Tex., Dallas-N. M. Harper contemplates erecting \$13,500 brick veneer cottage and 4-apartment building, 5615-09-11 Lewis St.

Tex., San Antonio—Gus W. Hahn, 405 Meerscheidt St., and other Kansas City capital has plans in progress by Seutter & Simons, Moore Bldg., San Antonio, for \$500,000 brick and concrete hotel, Starr, Binham & Bowie Sts.

W. Va., Huntington—Fred C. Prichard has preliminary plans in progress by H. Ziegler Deitz, Indianapolis, Ind., for \$2,500,000 13-story hotel, s. w. cor. Sixth Ave. and Ninth St., to be known as Hotel Prichard, 600 roooms each with bath, 120x200 ft., either reinforced concrete or structural steel, high

speed elevators, 3 mechanical ventilating systems; will be leased by A. E. Kelly, Huntington.

Miscellaneous

Ala., Birmingham—Third Avenue Building Co. will start construction June 1 of \$1,300,000, 10-story, fireproof, reinforced concrete building to be known as Third Ave. Bldg., Third Ave. and North 23rd St.; stores on first and part of ground floor and next 4 floors will be leased by Birmingham Athletic Club, 6 upper stories for bachelor apartments.

Ala., Birmingham—Clubhouse—Boys' Club, Dave Evans, Supt., has submitted plans by Warren, Knight & Davis, Birmingham, to Boys' Club Federation, Grand Central Terminal, New York City, for approval; \$60,000, 3-story, brick, 100x190 ft.; tin, carpenter and other shops in basement; gymnasium, swimming pool and assembly hall on second floor.

Ala., Demopolis—Demopolis Country Club, Att. Henry McDaniel, Pres., has purchased 203-acre tract as site for clubhouse.

Fla., St. Petersburg—J. Bruce Smith has plans in progress by M. Leo Elliott, Tampa and St Petersburg, for erecting \$150,000 building.

Fla., Tampa—Cafeteria—Jno. M. Nelson, E. C. and Ritner Chambers, owner and mgr. Eagle Cafeteria, will rebuild; \$35,000.

Ga., Jessup-W. J. McQuinn & Sons of Odum have purchased Block No. 16 and contemplate erecting brick building.

Ga., Savannah—Eureka Club, J. J. Srown, Pres., 517 Gwinnett St., has plans by Percy Sugden, 125 E. 49th St., Savannah, and is calling for bids for \$30,000, 3-stor; brick clubrooms and stores 60x54 ft., Barrett roof, interior tile, concrete and wood flooring, steel sash and trim, wire glass, gas radiator heating. (Noted April 24.)

La., Shreveport—Home—Board of Directors of Hepzibah Rescue Home, Mrs. Mabel Cooper, Pres., contemplate erecting \$38,000 building.

Md., Baltimore—Conservatory of Music—Peabody Conservatory of Music Board of Trustees, Gen. Lawrason Riggs, Pres., Equitable Bldg., contemplates remodeling; plans include changes in 2 upper floors, elimination of ort gallery, construction of concert had to accommodate 600 persons, room for chorus cass. additional classrooms; contemplate new building for Preparatory department; Parker, Thomas & Rice, Archts., Union Trust Bldg., Builtimore.

Mo., Kansas City—Jas. E. Taylor, 913 Grand St., contemplates remodeling building; \$10,000.

N. C., Asheville — Clubhouse — Lakeview Corp. contemplates \$350,000 to \$400,000 expenditure for 18-hole golf course, 50-room clubhouse, and other improvements at Beaver Lake.

N. C., Charlotte — Clubhouse — Charlotte Country Club has plans by Franklin Gordon, Charlotte, and will soon award contract for constructing addition to clubhouse and improvements to grounds and golf course; \$25,-

N. C., Crescent—Home—Board of Managers of Nazareth Orphans' Home, Rev. W. C. Lyerly, Concord, Mgr., has plans by state architect for dairy barn and girls' dormitory.

N. C., Winston-Salem--flome-Salem Home has received \$25,000 gift from Jas A. Gray and contemplates erecting unit.

Tenn., Chattanooga—Fair Buildings—Chattanooga Interstate Fair Assn., Judge Sam Conner, Pres., will start erection June 1st of \$10,000 cattle barns at Warner Park; 1-story, corrugated roof, concrete foundation.

Tex., San Antonio—Home—Building Comm. of Protestant Orphans' Home, Mrs. Annie E. Chitten, Chmn., has selected Adams & Adams, San Antonio, to prepare plans for \$150,000 brick and concrete building, Bandera Road, near St. Clous Farm. Noted Jan. 24

Va., Covington — Executive Comm. of Home for Homeless Boys, H. Minor Davis, member, contemplates erecting \$10,000 hydro-

Va., Norfolk—Auditorium—Woman's Club, Mrs. Frantz Naylor, appointed committee to secure bids for new auditorium.

Railway Stations, Sheds, Etc.

Ala., Dadeville—Central Georgia Ry., C. K. Lawrence, Ch. Engr., Savannah, contemplates erecting depot.

Ala., Jackson—Alabama Public Service Comm. has accepted plans and specifications for alterations and additions to depot from Division Council of Southern Railway, Birmingham. (Noted Feb. 28.)

Fla., Bradentown—Board of Trade requests Atlantic Coast Line R. R., J. E. Willoughby, Ch. Engr., Wilmington, N. C., to erect passenger depot and freight house.

La., Lake Charles—Southern Pacific Lines, R. C. Watkins, Vice-Pres. and Gen. Mgr., New Orleans, contemplate erecting train shed.

Va., Fredericksburg—Richmond, Fredericksburg & Potomac R. R., E. M. Hastings, Ch. Engr., Richmond, contemplates erecting elevated passenger station.

Schools

Ala., Ariton—State Dept. of Education, R. E. Ledbetter, Supervisor, Montgomery, will furnish plans and specifications for \$25,000 brick school building; 8 classrooms, domestic art room, manual training room and auditorium; address R. L. Hutto, Chmn. School Comm.

Ala., Chatham-School Board contemplates rebuilding school building.

Ala., Tuscaloosa—University of Alabama grandstand, recently destroyed by fire, will be replaced with fireproof structure.

Ark., Fayetteville—State University will soon start construction of \$12,000 gymnasium for women near Carnall Hall on campus.

Ark., Paragould—School Boatd, J. T. Agee, Pres., contemplates erecting high school building; Bliss & Sons, Archt., Little Rock, Ark. (Noted Nov. 29.)

Fla., Babson Park—Babson Park School District voted \$25,000 bonds for new school building.

Fla., Fort Lauderdale—City voted \$75,000 bond issue for additions to Central Elementary, build kindergarten; address J. S. Rickards, Supt.

Fla., Fort Myers—Lee County Board of Education contemplates erecting \$10,000 3-room brick school building.

Fla., Ocala—City voted \$100,000 school bond issue; address Marino County Board of Education, H. C. Shealy, Supt. (Noted April 10)

Fla., Orlando—Cathedral School for Girls contemplates erecting \$30,000 music building; address Rt. Rev. Cameron Mann. Palm Beach.

Ga., Emory University—Executive Comm. of Board of Trustees of Emory University, Lauren W. Foreman, Chmn., contemplate erecting \$500,000 library.

Ga., Perry—Perry Consolidated School District, H. P. Hauser, Sec., selected Wm. J. J. Chase Atlanta, to prepare plans for 1-story \$50,000 brick high and graded school building; 175x200 ft., composition shingle roof, wood and concrete flooring, concrete foundation, hollow tile, 12 classrooms, science

laboratories, domestic science department, art and music rooms, library, rest and office rooms and auditorium; bids will be opened May 23. (Noted Apr. 24.)

Ky., Clay—Board of Education, Dr. M. M. Davis, Chmn., has plans in progress by Alfred E. Neucks, 605 Old Bank Bldg., Evansville, Ind., for \$40,000 2-story and basement grade and high school building; 79x132 ft.

Ky., Covington—Board of Education, T. C. Reed,, Pres., will soon award contract for \$25,000, 2-story and basement brick grade School addition, 9th District; 44x68 ft.; Alfred E. Dailey, Archt., 620 Madison Ave. Covington.

Ky., Dayton—Board of Education, Frank Stabb, Pres. will open bids May 8 for \$100,000 brick, stone and terra cotta high school, the hand Belmont Ave.; 3-story and basement, 96x172 ft.; C. C. & E. A. Weber, Archts., 148 Ingalls Bldg., Cincinnati, Ohio.

Ky., Frankfort—Board of Education, H. V. McChesney, Pres., opens bids May 12 for high school building, Shelby and Fourth Sts.; 2 stories with basement and sub-basement, room on roof for library and study hall. 12 classrooms, offices on first and laboratories on second floor, domestic science rooms and kitchen and 2 rooms for commercial department in basement, heating plant in sub-basement; 156x102 ft.; Frankel & Curtis, Archts., Lexington, Ky.

Ky., Georgetown—Georgetown College, Marshall Adams, Pres., has plans in progress by Frankel & Curtis, Archts. and Engr., 401 Wolf-Wile Bldg., Lexington, for \$100,000, 2-story and basement, brick gymnasium.

Ky., Hazard—Perry County Board of Education will expend \$50,000 for erecting 6 school buildings; contract to be let May 10.

Ky., Mt. Vernon—Presbyterian Board of National Missions, Miss E. R. Boss, Sec. of Schools and Hospital Div., 156 5th Ave.. New York City, has plans in progress by R. E. Graft, 607 Arnstein Bldg., Knoxville. Tenn., for \$20,000 brick, 2-story and basement school building.

Ky., Paris—Bourbon County Board of Education, E. J. McVey, Supt., has plans in progress by W. K. Hagan & Son, First Natl. Bank Bldg., Paris, for \$18,000 consolidated school building; 1-story and basement.

Ky., Valley View—Madison County Board of Education, B. F. Edwards, Supt., Richmond, contemplates erecting consolidated high school.

Ky., Wooten—Presbyterian Board of National Missions, Miss McCord in charge, has plans in progress by R. F. Graft, 607 Arenstein Bldg.. Knoxville, Tenn., for \$20,000, 2-story and basement, brick school building.

La., Hahnville—St. Charles Par'sh School Board, J. B. Martin, Supt.. will open bids May 6 for erecting 1-story frame teacherage and principal's house at Destrehan and 1-story frame teacherage and principal's house at Hahnville; plans and specifications may be obtained from Supt. or Wm. R. Burk, Archt., 411 Balter Bldg., New Orleans.

La., Morgan City-School Board contemplates erecting addition to high school.

La., New Orleans—Orleans Parish School Board will open bids May 9 for erecting school building in square bounded by Esplanade Ave.. White, LePage and Crete Sts.; plans and specifications on file at office Supervising Archt., School Board, City Hall Annex.

La., New Orleans—Our Lady of Good Council contemplates erecting 2-story and basement school building, Louisiana Ave. and Camp St.; \$80,000, 123x145 ft., brick tile roof, wood floors, low pressure steam heat; contractors bidding are. L. J. Woodworth,

Rouprich Construction Co., Haase & Barbay, Jos. Fromherz, Geary-Oakes, Inc., Gervais F. Favrot, all New Orleans; Wm. R. Burk, Archt., Balter Bldg., New Orleans; bids opened April 30. (Noted Aug. 30.)

Md., Bishopsville—Worcester County Board of Education, A. C. Humphreys, Supt., Snow Hill, contemplates erecting 2-story, 4-room brick grade building.

Md., Chesapeake City—School Commrs. of Cecil County, care Hugh Caldwell, Supt., Court House, Elkton, are taking bids and will soon award contract for 4-room, \$20,000 addition to building, 2 stories, 25x60 ft.; Clarence R. Hope, Archt., DuPont Bldg., Wilmington, Del.

Md. Crumpton—School Commrs. of Queen Anne County, care J. M. Bennett, Supt., Centervile, will soon take bids for \$15,000, 3room, hollow tile and stucco building; W. D. Bunkloe, Archt., Easton, Md.

Md., Marion—School Commrs. of Somerset County, care of E. W. Pruitt, Supt., Princess Anne, has plans in progress for 2-story brick 8-room grade building; private plans.

Md., North Beach—School Commrs. of Calvert County. H. T. Ruhl, Supt., Prince Frederick, contemplate erecting \$10,000 1-story frame elementary building; Archt. not selected.

Md., Pittsville—Wicomico County Board of Education, Mr. Bennett, Supt., Salisbury, has plans in progress by J. Lester Barr, 202 N. Calvert St., Baltimore, and will take bids in summer for \$50,000 brick and steel school building.

Md., Rockville—Montgomery County Board of Education is reported to have purchased tract in Battery Park as site for school building.

Md., Solomon's Island—Calvert County Board of Education, H. T. Ruhl, Supt., Prince Frederick, contemplate erecting \$35,000 2story frame high and elementary school building.

Md., Whaleysville — Worcester County Board of Education, A. G. Humphryes, Supt., Snow Hill, contemplates erecting 2-story brick 4 or 5 room grade building; Archt. not selected.

Miss., Clarksdale—Coahoma County Board of Education, P. F. Williams, Supt., contemplates erecting \$20,000 central school for negroes.

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M'ss., Magnolia—Board of Supervisors will call election May 17 to vote \$60,000 loan warrants for erecting boys' dormitory and enlarging girls' dormitory and administration building of Pike County Agricultural High School.

Miss., Red Banks—Trustees of Red Banks Consolidated School District of Marshall County will open bids May 10 for alterations and additions to school building; plans and specifications may be secured from Supt. of Education, Holly Springs.

Miss., Wiggins—City voted \$50,000 bonds for brick school building. Address School Board. (Noted Mar. 20.)

Mo., Festus—Board of Education, M. Brickley, Pres., is taking bids for \$60,000 2-story and basement, brick and stone trim, semifireproof high school; Bonsask & Pearce, Archts., 305 Republic Bldg., St. Louis.

Mo., Jefferson City—City will vote May 13 on \$300,000 high school bonds. (Noted April 17.)

Mo., Kansas City—St. James Parish Rev. J. W. Keys, Pastor, has plans in progress by Edgar P. Madorie, 1106 Continental Bldg., Kansas City, for \$60,000 school, 40th St. and Tracy Ave., 10 classrooms and auditorium. buff colored brick, exterior walls, dark brick trimmings, terra cotta entrance. (See Machinery Wanted—Building Material.)

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Mo., Lebanon—Board of Education, W. H. Butts, Pres., contemplates erecting 2-story \$60,000 brick and stone trim building, 100x 90 ft.; Archt, not selected.

Mo., Odessa—Board of Education, P. G. Buckles, Supt., has plans by H. D. Pampel, 702 Finance Bldg., Kansas City, and will soon award contract for \$60,000 brick and stone high and grade school addition.

Mo., Parkville—School Board will soon call bond election for new high school building.

Mo., Steelville—Board of Education, Claude Bass., Pres., contemplates erecting \$35,000 2-story, brick and stone trim high school; Archt. not selected.

N. C., Asheville—City will vote in fall on \$500,000 bond issue; plans include high school, \$250,000, and 2 grammar schools, \$100,000 each, Address Jno. H. Carthey. Mayor.

N. C., Brevard—Transylvania County Board of Public Instruction, T. C. Henderson, Supt., opens bids May 12 for 3-story, \$75,000 school building; face brick, trimmed with white stone; plans and specifications may be obtained at office of F. H. & J. G. Cunningham Inc., Archts., Greenville, S. C. Noted March 6th.

N. C., Chalybeate Springs—Harnett County Board of Education, B. P. Gentry, Sec., Lillington, will soon award contract for school building at Chalybeate-Kipling Consolidated District. Noted April 10.

N. C., Forrest City—Cool Springs Township will vote May 24 on \$150,000 bond issue for central high school; address Rutherford County Board of Education, Rutherfordton, N. C.

N. C., Lexington—School Board, J. R. Raper, Sec., will open bids May 5 for 1-story brick school; 7 classrooms and auditorium; plans and specifications may be secured from County Supt. or Prof. J. J. Blair, Raleigh.

N. C., Newbern—Craven County Board of Education, R. S. Proctor, Supt., has plans in progress for 12-room buildings for Fort Barnwell and Riverdale consolidated districts, 8-room structure for Epworth-Riverside district, 8-room negro vocational school in James City.

N. C., Winston-Salem—Slater Normal School opens bids May 8 for 3-story, reinforced concrete, fireproof administration building; Northup & O'Brien, Archts., Winston-Salem. Noted April 17.

Okla., Ardmore—Board of Education, A. A. Watkins, Clerk, has plans by Butler Co., 710 Oil Exchange Bldg., Oklahoma City, for school building in District No. 9.

Okla., Enid—Board of Education, J. C. Hoffsommer, Supt., has plans in progress by R. W. Shaw, 223 Masonic Bldg., Enid, for \$20,000, 2-story and basement, stone and brick school building; 50x52 ft. (Noted April 10.)

Okla., Guthrie—Board of Education, care of Mrs. Louther, Clerk, rejected all bids for \$190,000 high school building; 3 stories, 32 rooms, gymnasium and auditorium, brick and stone, reinforced concrete foundations, pitch and gravel roof, oak finish, structural steel, steam heat? Hawk & Parr, Archts., Oklahoma City. (Noted April 3.)

S. C., Dillon—School Board has plans by Henry D. Harrall, Bennettsville, and will soon award contract for 1-story brick 4-room and auditorium school building.

S. C., Trenton—School Board has plans in progress by Scroggs & Ewing, Augusta, Ga., and will soon call for bids for 6-room school addition.

S. C., Williamston-Board of Trustees of

Williamston Schools have purchased Williamston Hotel and will convert into school; Martin & Ward, Archts., Greenville.

Martin & Ward, Archts., Greenville.
Tex., Abilene—City, Chas. E. Combs,
Mayor, contemplates election soon to vote
\$100,000 bond issue for new high school and
repairs to present buildings.

Tex., Austin—School Board, Dr. Geo. M. Decherd, Pres., has plans in progress by H. F. Kuehne, 824 Littlefield Bldg., Austin, for 2-room addition on west wing and 4-room addition to front of Palm School; remodel interior and install fireproof hallways and stairways; stucco building; \$35,000.

Tex., Austin—University Methodist Church contemplates \$500,000 improvements on Guadalupe St., to include erecting Bible Chair and church building addition; plans construction students' center: Bible Chair will be 2 stories, concrete frame, limestone facing, itle backing, \$40,000, 47x77 ft., hardwood and maple over concrete slab floors, concrete foundations, Spanish clay tile roof, hollow tile, interior tile, rolling partitions; Giesecke & Harris, Archts., 520-21 Littlefield Bldg., Austin. (Noted April 24.)

Tex., Cooper—Cooper Independent School District has plans in progress by Phelps & Dewees, Gunter Bldg., San Antonio, for \$75,000 high school. Noted Feb. 21, voted \$85,000 bonds.

Tex., Cooper—Cooper Independent School District, Board of Trustees, have plans in progress by Phelps & DeWees, San Antonio, for \$75,000 high school; brick and concrete. (Noted Feb. 21—voted \$85,000 bonds.)

Tex., Dodsonville—City voted \$16,000 bonds for 6-room and auditorium school building; brick and mill construction; E. H. Eads, Archt., Chickasha, Okla. (Noted 17.)

Tex., Kingsville—School Board, Kingsville Independent School District, contemplates erecting 1-story hollow tile and stucco, 7-room school building; Ralph H. Cameron, Archt., City Natl. Bank Bldg., San Antonio; bids opened April 28. (Noted April 24—voted \$40,000 bonds.)

Tex., Kleburg — Common School District No. 30 contemplates erecting 2-story brick buflding; address Dallas County Board of Education, H. L. Goerner, Supt., Dallas; bids opened May 1. Noted April 3—voted \$15,000 bonds.

Tex., Mansfield—Mansfield Independent District, T. E. Blessing, Pres., contemplates erecting 12-room and auditorium brick and stone school building; W. G. Clarkson & Co., Archts., First Natl. Bank Bldg., Fort Worth; bids opened April 29. (Noted March 20—voted \$65,000 bonds.)

Tex., Marlin—Fall County, Sandy Ridge District, voted \$10,000 school bonds. Address Falls County Board of Education.

Tex., Mineral Wells—Board of Trustees of Mineral Wells Independent School District, J. F. Wright, Sec., will call election May 8 to vote \$250,000 bonds for erecting brick building.

Tex., Poth—School Board, Common School District No. 4, will soon have plans by Adams & Adams, San Antonio, for school building.

Tex., Palestine—Board of Trustees, J. D. Pickett, Pres., contemplate \$100,000 bond issue for junior high school.

Tex., Sachse—Common School District No. 82 contemplates erecting 1-story brick building; address H. L. Goerner, Supt., Dallas County Board of Education, Dallas; bids opened May 1.

Va., Blacksburg—Virginia Polytechnic Institute World War Memorial Hall Building Comm., Lawrence Priddy, Chmn., 120 Broadway, New York City, has plans in progress by Cram & Ferguson, Boston, Mass., and Carneal

& Johnston, Richmond, Va., for World War Memorial Hall; cost \$225,000 to \$250,000, 2 or 3 stories, native stone, contain gymnasium and swimming pool; heat will be taken from central plant, heating equipment and ventilating being arranged by Wiley & Wilson, Archts., Lynchburg, Va.; plans and specifications will be complete in 60 or 90 days.

W. Va., Barboursville—Barboursville Independent School Board, W. C. Peyton, P. 268., contemplates purchasing Morris Harvey College dormitory and converting into high school building.

W. Va., Bluefield—State Board of Control, Jas. S. Lakin, Pres., Charleston, W. Va., will open bids May 16 for 2-story, 10-room, stucco residence, 33x68 ft., basement 33x41 ft. wood frame, concrete foundation, oak floors and trim, quarry tile for porch floors, slate roof, hot-water heat, plumbing and electrical work; plans and specifications by Wysong & Jones, Archts., 310 Professional Bldg., Charleston, may be obtained from State Board of Control.

W. Va., Morgantown—Morgantown Independent School District selected E. B. Lee, Pittsburgh, Pa., to prepare plans for \$60,000 high school plant; will call for bids about Aug. 1. Noted Jan. 1—voted \$600,000 bonds.

W. Va., Mannington—Board of Education of District of Mannington, A. L. Thomas, Sec., will call election May 15 to vote \$200,000 bonds for high school building. (Noted April 17.)

W. Va., Weston—School Board, W. J. Ballard, Pres., contemplates erecting 1-story addition to Kittsinville School.

Stores

Ala., Birmingham—J. G. Whitfield, Springhill, Tenn., has purchased N. W. cor. Fourth Ave. and Eighteenth St. as site for \$350,000 6-story, fireproof department store; 150x140 ft.; H. R. Terry of McConnell-White-Terry-Realty & Insurance Co. has charge of work

Ark., Ashdown-G. C. Cobb Co. contemplates erecting brick building.

D. C., Washington—Sonneman & Justeman, Archts., Phillips Bldg., 15th and K Sts., N. W., are preparing plans for \$50,000, 4-story limestone and steel store building; owner's name withheld; will select contractor without competition.

Fla., Bradentown—R. G. Whitney, Bridgeport, Conn., has purchased 100x100 ft. s. w. cor. Broad and Park Sts., and is reported to contemplate erecting business building.

Fla., Clearwater—Jeffords & Smoyer contemplate erecting 2-story store and office building in front of packing house properties in Cleveland St.; present buildings will be moved to north.

Fla., Miami—W. B. Ector is erecting 2 story, concrete, \$15,000 building, N. W. Fifth Ave.; 10 apartments and 2 store rooms; R. A. Preas, Archt., Miami.

Fla., Miami—American Furniture Co. has plans by H. Geo. Fink, Miami, for 3-story business block, W. Flager St. and Tenth Ave.;

Ky., Cornettsville—Singleton & Cornett will erect \$10,000 store building; contract at once.

Ky., Pikeville—R. T. Huffman, Jr., will erect \$25,000 store and office building.

Ky., Vergie—Geo. and B. F. Johnson will erect store and office building; contract at once.

Ky., Whitesburg — J. D. Day will erect store building in East End; contract at once. La., New Orleans—L. Klein opened bids April 28 for 1-story 2-store building, 1705

Drayades St.; 29x40 ft.; Weiss & Dreyfous, Archts., Maison Blanche Bldg., New Orleans; contractors bidding are: Geary-Oakes. Cooper & Sperier, Wm. Prechter, P. C. Danove, 3225 Chartress St., and G. E. and E. E. Reinmann, all New Orleans.

La., New Orleans—Weiss & Dreyfous, Maison Blanche Bldg., will soon call for bids for alteration to building at St. Charles near Clio St. for Sam Fertel.

Mo., Kansas City—Werby Realty Co. contemplates erecting 1-story brick building, 3-11 E. 39th St.; \$20,000.

Mo., St. Louis—Henry C. Kieninger, 5511 St. Louis Ave., has plans by A. Meyer, Central Natl. Bank Bldg., and is taking bids for \$10,000, brick and terra cotta store and flat building, St. Louis and Burd Aves.; 1-story, 52x26 ft.

N. C., Durham—Bruce Mason contemplates erecting \$15,000 store building.

N. C., Kinston—A. J. Sutton & Son contemplate erecting brick business building, West Gordon St. section.

Okla., Ponca City—Dr. A. A. Robertson has postponed indefinitely erecting business building; bids opened April 1 and all bids rejected; G. J. Cannon, Archt., Ponca City. (Noted March 27.)

Tex., Dallas—Sanger Brothers have plans by Lang & Witchell, Dallas, for \$100,000, reinforced concrete, fireproof, 4-story building, Jackson and Poydras Sts.: 95x117 ft., press brick and stone front.

Tex., Dallas—Price A. Wren contemplates erecting 2-story brick veneer \$13,000 stores, 2213.31 Hall St.

Tex., Gatesville—Byron Laird will remodel store building; 1-story addition and interior and exterior remodeling; \$12,000; Milton W. Scott & Co. Archt. Waco.

Scott & Co., Archt., Waco.

Tex., Kerrville—C. W. Rawson will soon have plans by Adams & Adams, San Antonio, and call for bids for remodeling and addition to store and office building; \$12,000.

Theatres

Ky., Louisville—W. P. Brown & Sons Lumber Co., J. Graham Brown, Pres., 4th and K Sts., contemplates erecting 3 to 7-story club, theater and office building, Broadway between 3rd and 4th Sts.; 65x125 ft., brick; Archt. not selected.

Md., Pocomoke City—Frank P. Bratten, Market St., has plans in progress by Theo. Wells Pietsch, American Bldg., Baltimore, for 1-story brick and steel theater building, Front St. (Noted Feb. 14.)

N. C., Durham—Southern Amusement Co., T. G. Leitch, Mgr., has selected site Main and Queen Sts. and has plans in progress by Milburn, Heister & Co., Durham, and Union Savings Bank Bldg., Washington, D. C., for \$350,000 steel and concrete, 8-story theater and office building; first 4 floors for theater and balance offices; 90x200 ft.; plans within 30 days and will let contract within 3 weeks; Nat Ferber, local representative. Noted April 10.

Okla., Tulsa-Wm. Fox, 126 W. 46th St., contemplates erecting theater building.

Tex., Lufkin—Lufkin Amusement Co. has plans in progress by Jones, Roessle, Olschner & Weiner, Ardis Bldg., Shrevepert, for \$100,000 theater.

Warehouses

Ark., Little Rock--Terminal Warehouse Co. contemplates erecting \$200,000 4-story fireproof storage warehouse.

Fla., Lakeland—Gibson-Plott Co. will soon make improvements to warehouse, adding additional store rooms and install elevator.

Ky., Louisville—R. J. Reynolds Tobacco Co., Inc., Winston-Salem, will soon award contract for 3-story and basement, brick and concrete warehouse, Swann and Kentucky Sts.: private plans.

Ky., Louisville—W. J. Hughes contemplates erecting \$10,000 lumber shed, 222 S. Fourteenth St.

Ky., Louisville—R. Mansfield & Sons contemplate erecting \$10,000 brick warehouse, 711 Brent St.

La., New Orleans—American Creosoting Works has plans by Armstrong & Koch, Maison Blanche Bldg., New Orleans, and is receiving bids for \$17.000, 2-story frame warehouse, Dublin and Plum Sts.; 35x60 ft.

La., Plaquemine — Interstate Wholesale Grocery Co. has purchased lot and warehouse and contemplates replacing with larger struc-

Tex., Alice—Ullman, Stern & Krausse, Inc., contemplate erecting warehouse and store room.

Tex., Houston—Peden Iron & Steel Co. contemplate erecting warehouse; 100-ft. frontage Harrisburg Blvd.

vators, Abell Elevator Co., 114 N. Sth St.; D. N. Murphy & Bro., Archis., 714-20 Louisville Trust Bldg., all Louisville, Noted March

Md., Baltimore-Following sub-contracts let in connection with erection of office building for Home Friendly Insurance Co. by R. B. Mason, Contr., 308 W. Madison St., Balti-more; Builders' supplies, cement, etc., National Building Supply Co., Garrison Lane near W. Baltimore St.; brickwork and hol-low tile, C. E. Jackson, 216 W. Madison St.; rolling steel door, Kinnear Manufacturing Co., 15 E. Fayette St.; hollow metal, United Metal Products Co.: kalamine and roofing and sheet metal work, Wm. F. Zeller Co., 613-19 W. Cross St.; metal windows, Campbell Metal Window Corp. and Richey Brown & Donald; structural and miscellaneous iron work, Dietrich Bros., Pleasant and Davis Sts.; mastic floors, Thomas Moulding Co.; marble and tile work, Jos. B. Dunn & Sons, Inc., 853 N. Howard St.; partitions, Improved Office Partition Co.; millwork, Heise & Bruns Mill & Lumber Co., 600 S. Caroline St.; lumber, J. Goddard Mattingly, 6 E. Pratt St.; painting, J. G. Valiant Co., 224-26 N. Charles St.; Clyde N. & Nelson Friz, Archts., Lexington Bldg., all Baltimore. (Noted March 13.)

Miss., Canton—Exchange Bank let contract to D. D. Thomas & Son, Memphis, Tenn., for \$75,000 two-story brick building; N. W. Overstreet, Archt., Jackson, Miss.

Mo., Kansas City—David M. Proctor, 431 Scarritt Bldg., let contract to W. Becker, Burnett Hotel, 9th and Holmes Sts., for \$50,000 office building, 75th St, and Broadway; 2 stories and basement, 61x67 ft., 412 Grand Ave. Temple Bldg., both ansas brick and terra cotta; A. B. Fuller. Archt., City.

N. C., Kinston—Farmers & Merchants Bank, L. J. Newborne, Pres., let contract at \$61,500 to Gaskill Construction Co., Wilson, N. C., for 6-story bank and office building, Queen and Gordon Sts.; heating to W. E. Bailey & Bro.; plumbing, C. E. Rosemond; electrical work, Kinston Electric Supply Co.; terra cotta work; bank to occupy 2 floors, 28 offices above; Benton & Benton, Archts., Wilson; furnishings, including vault and fixtures not let. Noted April 24.

S. C., Spartanburg—Wm. Gordon & Co., Atlanta, Ga., has contract for heating and ventilating system, W. G. Shivers, Spartanburg, plumbing, and Hixson Electric Co., Boston, Mass., for electrical work in \$850,000 ten-story Montgomery Bldg.; Lockwood, Greene & Co., Archts.-Engrs., 24 Federal St., Boston, and Spartanburg. (Noted March 13, Feb. 21, etc.)

Tex., Galveston—A. J. Warren has contract for heating and plumbing, Max Levy, electrical work and H. L. Roche, plastering for 2-story and basement office building for Medical Building, Inc.; cost about \$50,000, reinforced concrete, brick and tile, 60x80 ft., marbeloid floors, hollow and interior tile, mail chutes, ventilators, concrete foundation, tile roof; R. R. Rapp, Archt., Security Bldg.; Johnson Bros., Contrs., all Galvestofi. (Noted April 17.)

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Va., Wytheville—First National Bank will rebuild burned structure; 2 stories, Indiana limestone front, tile and cork floors; new equipment including vault and marble counters; Eubank & Caldwell, Archts.-Contrs., Roanoke, Va. (Noted March 20.)

Churches

Ala., Ensley—First Baptist Church, care N. R. Baker, let contract to Holley & Davis, Birmingham, for \$100,000 Sunday-school building, 23rd St. and Avenue E; Oriental face brick; \$100,000 main auditorium to be

BUILDING CONTRACTS AWARDED

Association and Fraternal

Ark., North Little Rock (Ind. Branch Little Rock)—Benevolent Protective Order of Elks let contract to W. H. Meacheam, North Little Rock, for \$50,000 building.

Fla.. Fort Lauderdale—Ancient Free and Accepted Masons are erecting \$30,000 hollow tile and stucco temple, N. Osceola Ave.; 2 stories, 50x125 ft.; Geo. Young, Contr., Fort Lauderdale.

Ga., Savannah—Young Women's Christian Assn., H. Emily Beecher, Gen. Sec., is completing improvements; Henrik Wallin, Archt., 23 Abercorn St.; Farquhar McRae, Contr., 11 Drayton St.; steam heating, Savannah Heating Co.; electrical work. Byck Electric Co., all Savannah. (Noted April 3.)

Bank and Office

Ala., Tuscaloosa—Merchants Banks Building Co., Inc., C. B. Verner, Pres., let contract April 15 at \$325,000, exclusive of steel frame (contr. noted let Sept. 13, 1923), foundation (contr. noted July 12), wiring, heating,

plumbing and elevators, to Skinner-Maxwell Building Co., Tuscaloosa, for \$500.000 stone, brick and terra cotta bank and office building, Broad St. and Greensboro Ave.; 10 stories and basement, \$2.5x123 ft., rift pine floors on concrete, tar and gravel roof, hollow tile, metal doors, vaults, mail chutes, vault lights, ventilators, wire glass; steam heating and plumbing to O. T. Cole, Tuscaloosa; electric wiring, Birmingham Mill & Supply Co., Birmingham, Ala.; 2 elevators, Otis Elevator Co., New York City; D. O. Whilldin, Archt., Birmingham.

Ky., Louisville — Commonwealth Life Insurance Co. let contract March 4 to J. F. Russel & Co., Brook and Bloom Sts., for \$200,000 skeleton type insurance office building, 106-10 S. 5th St.; 5 stories, S4x100 ft., hardwood, terrazzo and concrete floors, hollow tile, metal doors, vaults, ventilators, wire glass, composition roof, concrete and steel foundation; heating to W. C. Gibson & Co., 722 Bullit St.; electrical work, Theobald & Jansen Electric Co., 328 W. Main St.; plumbing, P. H. Meyer Co., 640 Preston St.; 2 ele-

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started upon completion of Sunday school; P. S. Mewhinney, Archt., Woodward Bdlg., Birmingham. Noted April 10.

Ala., Pine Hill-Pine Hill Baptist Church will erect \$12,000 building; J. M. Smith, Constr. Supervisor, Pine Hill.

Ala., Selma-St. Pauls P. E. Church, Julien Smith, Chmn., Bldg. Comm., let contract to Southern Construction Co. for \$50,000 parish house; Lockwood & Poundstone, Archts., Forsyth Bldg., both Atlanta, Ga. (Noted April 17.)

Ga., Columbus-St. Luke Methodist Church, Dr. Chas. R. Jenkins, Pastor, will erect \$50,-000 Sunday school annex; work started.

Ky., Frankfort-South Frankfort Presbyterian Church, J. W. Montgomery, Chmn., Bldg. Comm., let contract at \$15,290 to Goin Bros., Frankfort, for 2-story brick Sundayschool building; 50x60 ft., pine floors, stone foundation, shingle roof, ventilators, rolling partitions; vapor system of heat and subcontract for electrical work and plumbing not let; L. L. Oberworth, Archt., all Frankforf. Noted March 6.

Mo., Alton-Main St. Methodist Church let contract to Wm. R. Kohn, Rantoul, Ill., for \$50,000 building.

Mo., Lathrop-Methodist Episcopal Church, Rev. G. B. Draper, Pastor, let contract to John Scott & Sons, Memphis, Mo., for \$38,-000 church and Sunday school building; 2 stories and basement, 52x75 ft., brick, stone and terra cotta; Ludwig Abt, Archt., 1141/2 N. Williams St., Moberly, Mo.

Mo., Lohman-St. Paul's Lutheran Church let contract to Gus Linsenbardt, Jefferson City, Mo., for brick building.

Mo., St. Louis-Society of the Helpers of the Holy Souls, 4012 Washington St., will add story to auditorium; brick, 34x89 ft., composition roof, hot water heat; cost \$10,-000; Mauran, Russell & Crowell, Archts.; Hall-Mackey Construction Co., Contr., 414 Dolph Bldg., all St. Louis.

Okla., Bristow-St. Josephs R. C. Church let contract at \$27,500 to L. C. Martin for 72x30-ft. building; heating, plumbing and wiring not let; C. Lee Curran, Archt., both Bristow. (Noted April 17.)

Tenn., Watertown—Baptist Church, Dr. T. L. Hale, Chmn., Bldg. Comm., will erect \$35,-000 building; auditorium with circular bal-cony, 27 Sunday-school rooms, etc.; C. K. Colley, Archt., Nashville, Tenn.; E. H. Smith, Foreman, Watertown,

Tex., Smithville-First Presbyterian Church let contract at \$17,800 to Fite & Ingram, Smithville, for 1-story and basement building; 40x80 ft., auditorium and Sunday school; H. F. Kuehne, Archt., 824 Littlefield Bldg., Austin, Tex. Noted April 17.

Va., Portsmouth-Park View Methodist Church, Rev. J. T. Greene, Pastor, let contraet at \$39,000 to Calvin Johnson & Son, Norfolk, Va., for building, Webster Ave, and A St.; 1 story, brick, concrete foundation, slate roof. (Noted March 13.)
W. Va., Huntington—Trinity Episcopal

Church, John W. Ensign, Chmn., Bldg. Comm., let contract at \$99,000 to C. Harrison Smith for parish house, 5th Ave. and 11th St.; gymnasium, auditorium, etc.; Wm. F. Diehl, Archt., both Huntington. (Noted Nov. 8.)

City and County

Fla., Kendall-County Farm-Dade County Commrs. let contract at \$72,822 to Geo. Jahn, Miami, for 2 buildings at County Farm; wood floors; H. Hastings Mundy, Archt., both Miami. Noted April 17.

Fla., Miami Beach-Fire Station-City,

180 to John Cooper for fire station on Liberty St.; Louis D. Brumm, Archt., both Miami Beach. (Noted April 24.)

S. C., Spartanburg-Plumbing-L. W. Hickok, Spartanburg, has contract for plumbing at Cleveland Park; P. J. O. Smith, City Bldg. Inspector.

W. Va., Follanshee-Municipal Building-City, L. A. Diller, Mayor, let contract at \$46,670 to Steubenville Stone Co. for municipal building; plumbing and heating to Bosch Contracting Co., \$6400; electrical work, McCoy & Porter, \$2160, all Steubenville, O. (Noted Nov. 29.)

Dwellings

Fla., Miami Beach-Sandquist & Snow, Contrs., Miami, Fla., plan to erect dwelling, 17th St. and Collins Ave., and 1 on Hibiscus

Fla., Miami Beach-Dade Electric Co. has contract for electrical work and Dulbs & Co. for plumbing in 2 dwellings on Prairie Ave. for Miami Beach Bay Shore Co.; 3 stories, 39x41 ft., hardwood and concrete floors, concrete foundation, hollow and interior tile, tile roofs, cost \$12,000 each; Watson Corp., Archt.-Contr., 216 Professional Bldg., all Miami Beach. Noted April 24.

Fla., Miami Beach-C. M. Eaton will erect \$25,000 residence on Star Island; 2 stories, 14 rooms; R. L. Weed, Archt.; E. H. Milton, Contr., both Miami, Fla.

Fla., Tampa—Frederic Mayes, 2807 Bay-shore Blvd., will erect 4 dwellings, Virginia Park; 2 stories, 70x40 ft., oak and pine floors, hollow and interior tile, plaster board, ventilators, ornamental terra cotta, wire glass, asphalt roof; total cost \$80,000; plans and construction by Mr. Mayes.

Fla., West Palm Beach-Paul Wead & Co. has contract for heating and Palm Beach Electric Co. for electrical work in residence on Seaview Ave. for Renaurd Smith, New York City; A. I. V. Wilson Co., Contr., all West Palm Beach. (Noted April 24.)

Ga., Savannah-Mrs. Phoebe B. Hartley, 103 Perry St., W., let contract for plumbing and Arcola heating system to Wm. Paul & Sons, for 2-story brick veneer residence, Victory Drive; 30x64 ft., oak and pine floors, concrete foundation, composition slate roof; work started; electrical work and sub-con-tracts not let; F. B. Merry, Archt.-Contr., 705 Seiler Ave., all Savannah. (Noted April

Ga., Thomasville-W. L. Garrick will erect residence; material on ground.

Ga., Thomasville-A. P. Williams, County Commr., will erect residence; clearing site.

La., New Orleans-Miss E. C. Landry will erect \$14,900 double bungalow, Homesdale and Taylor Sts.; slate roof; A. C. Babin, Con-tractor, 405 Marine Bank Bldg., New Orleans.

La., New Orleans—Miss Viola M. Walker, 531 S. Pierce St., will erect \$10,750 residence, Iterville and St. Patrick Sts.; E. F. Sporl, Archt.; Ferd. Frank and Theo, Manuel, Contrs., all New Orleans. (Noted April 17.)

La., Shreveport-S. Bender, 1712 Creswell St., has foundation in for \$25,100 brick and tile residence, 501 Gladstone Blvd.; 2 stories, 40x42-ft., oak and concrete floors, hard tile roof, interior tile, natural gas heat, 3 baths; Seymour Van Os, Archt., 1213 Merchants Bldg.; J. W. Waters, Contr.; Elliott Electric Co., knob and tube electrical work; Wessell Plumbing Co., plumbing, all Shreveport. (Noted April 24.)

La., Shreveport-J. A. Peavy will not erect Van Allen Harris, Mgr., let contract at \$13,- \$24,000 residence as reported April 24; is repairing present structure.

Md., Baltimore—Wm. P. Pearson, 600 W. 26th St., will erect 6 two-story frame dwellings, S. W. cor. Wilmslow Ave. and Park Lane; 35x30 ft., slate roofs, steam heat; total cost \$75,000; H. C. Alken, Archt., 4115 Ridgewood Ave.; F. J. Gornet, Contr., both Baltimore. Noted April 24.

Md., Baltimore-Wm. G. Weller, 1945 W. Fayette St., will erect \$15,000 residence, 3206 Liberty Heights Ave.; 21/2 stories, 42x54-ft., brick, slate roof, seam heat; J. R. Forsythe, Archt., 16 E. Lexington St.; John Ketz Sons Co., Contr., both Baltimore.

Md., Baltimore-Highland Homes Building Co., Esther Place, will erect 18 two-story brick dwellings, 3602-36 Esther Place; 15x 28 ft., Carey roofs, furnace heat; J. F. Gerwig, Archt., 1028 N. Fulton Ave., Baltimore; owner builds. (Lately noted.)

Md., Baltimore-Manhattan Realty Co. will erect 5 two-story frame dwellings, N. E. cor Woodlea Rd. and Edgewood Ave.; 20x26 ft., asbestos shingle roof, furnace heat; total cost \$15,000; Fredk, E. Beall, Archt., 306 St. Paul St., Baltimore; owner builds. (Noted April

Md., Baltimore-Milton R. Lerch, 4337 Harford Rd., will erect 5 bungalows, N. E. and 5 on N. W. cors. Ross Rd. and Beechwood Ave. and 11, N. side Lerch Drive S. of Rueckert Ave.; 1½ stories, frame, 24x26 ft., slate roofs, steam heat; total cost \$100,000; Geo. Wessel, Archt., 3001 Lyttleton Rd., Baltimore; owner builds. (Noted April 10.)

Md., Baltimore-Edw. Morris Construction Co., will erect 12 two-story brick dwellings, E. side Holmes Ave., N. W. of Mondawmin Ave.; 21x35 ft.; total cost \$30,000; F. Terren, Contr., 1814 N. Pulaski St., Baltimore. (Noted April 17.)

Mo., Clayton (Ind. Branch St. Louis)-Henry Kuhn, 3634A Wyoming St., will erect \$15,000 brick residence, block 4, Moorlands; 28x38 ft.; plans and construction by owner.

Mo., St. Louis-Brannon Manarial Society, 6310 Minnesota St., will erect \$12,000 brick dwelling, 6145 S. Grand St.; 2 stories, 26x30 ft., glazed tile roof, hot water heat; J. Doherty, Contr., 121 Blow St., St. Louis,

Mo., University City (Station St. Louis)—Sidney Mohlman, 1945 Harris St., will erect \$15,000 brick residence, 7218 Westmoreland Ave.; 2½ stories, 36x33 ft., slate roofs, hot water heat; Frank Gear, Contr., 3125 N. Grand St., University City.

N. C., Charlotte-Continental Manufacturing Co. will erect 4 frame dwellings, 312-18 Victoria Ave.; total cost \$18,000; work

N. C., Greensboro — Methodist Episcopal Church South, Rev. B. C. Glenn, Pastor, is erecting parsonage.

N. C., Greensboro—H. Smith Richardson let contract to C. J. McMichael, Greensboro, for \$75,000 Colonial residence, Irving Park; stucco and green tile exterior; 14 rooms, 36x80 ft., 2 stories, oak, tile, cork and concrete floors, concrete foundation, tile roof; heating, lighting and plumbing not let; Chas. Barton Keene, Archt., 1218 Chestnut St., Philadelphia, Pa., and Winston-Salem,

Okla., Pawhuska-A. N. Murphy let following contracts for \$12,000 residence: General J. N. Davis; millwork and steel, Benson Bros. Lumber Co.; painting, T. T. Wortham; brick, Pawhuska Brick Co., all Pawhuska; Maurice Jayne, Archt., Oklahoma City, Okla. (Noted March 27.)

S. C., Spartanburg-McDowell & Hammond will start construction May 1 of number of \$3000 to \$25,000 dwellings; hardwood, wood block and concrete floors, brick foundations, hollow and interior tile, plaster board, venti-

lators, ornamental terra cotta, steel sash and trim, wire glass, shingle roofs, Arcola system of heat; plans by N. O. McDowell. Noted April 10.

Tex., Dallas-Murphy & Bolanz let contract to A. S. Childers, Dallas, for 50 dwellings on S. Henderson and Jerome Aves.; 5 and 6 rooms.

Tex., Houston-John J. Carman is erecting \$11,000 residence, 1644 Kipling St.; 16 rooms, brick veneer.

Tex., Houston-Mrs. A. S. Henley is erecting \$12,000 duplex, 407 Colquitt St.; 2 stories, brick veneer.

Tex., Houston-W. F. Moore is erecting \$10,000 residence, 262 Bremond St.; 2 stories, 9 rooms, brick veneer.

Tex., Houston-Swedman & Page, Inc., are erecting \$11,390 dwelling, Sunset Blvd.; 2 stories, 8 rooms, brick veneer.

Tex., San Antonio-Fred E. Webster, 309 Joliet Ave., has contracts for brick and tile work on following dwellings: A. C. Dugger, Elsmere Place; W. K. Ewing, Terrell Hills; Ed J. Frazier, Elizabeth Rd.; W. J. Haynes, 206 Bedell Bldg., has contract for warm air system of heat in Dugger and Ewing residences

Va., Richmond-Saml. H. Baker, 6 N. Boulevard, is starting construction of 10 frame and stucco dwellings, 10-28 E. 38th St.; 2 stories, 24x30 ft., hardwood floors, brick foundations; total cost \$45,000; plumbing to Kritzer & Harman, Richmond; heating and electrical work not let; plans and construction by owner. (Noted April 24.)

Tex., Waco-R. O. Beach will erect \$32,000 residence; Castle and Austin Sts.; 2 stories, brick; Baugh & Lovell, Archts.; Wm. Smith, Contr., all Waco.

Richmond-Robt. L. Wallerstein, 308 Mayo Bldg., let hot water heating and plumbing to J. N. Roye, 305 W. Brookland Park Blvd., and electric lighting to Toney & Cooke, both Richmond, for 2 frame and stucco dwellings, 3124-26 Barton Ave.; 2 stories, 22x29-ft. and 24x30-ft.; oak, pine and concrete floors, brick foundation, slate roof; plans and construction by owner. (Noted April 24.)

Government and State

Tex., Orange-Post Office-Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., let contract at \$34,354 to Wm. McDonald Construction Co., St. Louis, Mo., for 1-story brick, non-fireproof, 82x54-ft., post office building. (Noted March 13.)

Hospitals, Sanitariums, Etc.

La., New Orleans-Charity Hospital, F. W. Evans, Vice-Pres., Board of Administrators, let contract at \$236,000 to G. E. & E. E. Reimann, Ltd., for 4-story fireproof building; reinforced concrete, wood and terrazzo floors, concrete foundation on wood piling interior tile, metal doors, composition roof; Favrot & Livaudais, Ltd., Archts., Hibernia Bank Bldg., all New Orleans. (Noted April 10.)

St. Louis-Jewish Hospital, Aaron Waldheim, Chmn., Hospital Board, let general contract, masonry and carpentry to Murch Brothers Construction Co., Ry. Exchange Bldg., St. Louis, for \$1,500,000 hospital building, Kingshighway and Forest Park Blvd.; 7 stories and basement, 208x249 ft., brick and terra cotta; terrazzo floors; accommodate 250; Graham, Anderson, Probst & White, Archts., 80 E. Jackson Blvd., Chicago, Ill. Noted March 13.

Tex., El Paso-Elliot Engineering Co. has contract for steam heating system (oil burning furnace), Independent Electric Co. for electrical work, and Jas. A. Brennan, plumb-

ing, in \$235,000 sanitarium for Drs. Homan & Crimen; O. H. Thorman, Archt., First National Bank Bldg.; Jennings Construction Co., Gen. Contr., P. O. Box 1407, all El Paso; 2 push button type passenger elevators to Otis Elevator Co., New York City (El Paso Office). (Details noted April 17.)

Hotels and Apartments

Ark., Hoxie-Mrs. A. B. Gibson awarded contract to Estes-Williams-Ragsdale Co., Madison Ave. Bldg., Memphis, 2-story, art brick, 36-room hotel addition; tile and built-up gravel roof; oak, concrete, pine and tile flooring; reinforced concrete and brick foundations, interior tile; Jno. Gilmore Plumbing Co., St. Louis, Mo., vacuum vapor heat, shower and tub baths, hot and cold water; Jno. Wilson, Walnut Ridge, Ark., conduit knob and tube; Lambert De Koning, Archt., Texarkana, Ark. Noted Feb. 28.

Fla., Lake Worth-A. T. Strano awarded contract to Johnson & Geerling, Fort Worth, for \$15,000 tile and stucco 10-apartment building, Lucerne Ave. and K St.

Fla., Miami-Wesley Smith awarded contract to H. R. Evans, Miami for \$25,000, 3-story, cement block, 32-room apartment, N. E. First Ave.; J. T. Turner, Archt., Miami.

Fla., Tampa-Mrs. Louise Pearce awarded to J. S. Bradbury, Tampa, for 8-family, 2-story, brick veneer, \$35,000 apartment house, 1012 S. Dakota Ave.: 4 apartments on each floor.

Mo., St. Louis-Kenmare Investment Co. awarded contract to Glen Eyrie Investment Co., St. Louis, at \$131,000 for 3-story, brick and joist 18-apartment building, Waterman Ave.; 88x100 ft., oak and concrete flooring, asphalt roof, stone foundation, hollow tile, interior tile, plaster board, ornamental terra cotta, ventilators, exterior of face brick trimmed with terra cotta and green glazed tile; Thos. J. Sheehan Co., 2233 Olive St., plumbing and heating; Walter F. Sheehan, Archt., 721 Chestnut St., both St. Louis.

Mo., St. Louis-Philip Construction & Security Co., 911 Wainwright Bldg., will erect two 3-story tenements, 1967-71 Alfred St.; \$20,000, 34x54 ft. each, composition roof, steam heat. Owner builds.

Mo., University City (Sta. St. Louis)-Walter A. Hays, Central Natl. Bank Bldg., will erect \$20,000, 3-story, 6-family, brick apartment building, 6643 Kingsbury St.; 20x 49 ft., tar and gravel, and tile roof. Owner builds.

Mo., University City (Sta. St. Louis)-Wagner-Grant-Bell Real Estate Co., 722 Chestnut St., will erect \$25,000, 3-story, 6-family, brick apartment building, 6301 Clemens Ave.; composition roof, steam heat. Owner builds.

N. C., Charlotte-Duncan McDonald will erect \$10,000 brick veneer 2-story apartment. Amherst Place: 16 rooms, 4 families: M. R. Marsh, Archt.; Cornell Clanton, Contr., both Charlotte. (Noted April 24.)

N. C., Sanford-Wilkins-Ricks Co. contemplates erecting \$200,000 hotel, Steele and Wicker Sts.; 6 stories, including basement, fireproof, reinforced concrete and steel, 72x 118 ft., 92 bedrooms, 68 with bath; convention hall and mezzanine floor 26x58 ft., main dining room 35x50 ft.; Joe W. Stout & Co., Inc., Contrs., Sanford.

S. C., Greenville—Greenville Community Hotel Corp., John T. Woodside, Pres., awarded contract to Hunkin-Conkey Construction Co., Cuyahoga Bldg., Cleveland. Ohio, for \$1,000,000, 11-story, 210-room hotel, Main and Court Sts.; each room with bath, first floor for stores; W. L. Stoddart, Archt., 50 East 41st St., New York City; J. E. Sirrine & Co., Engrs., Greenville. Noted Jan. 31.

S. C., Greenville-C. C. Jones awarded contract to Potter & Shackelford, Inc., Greenville, at \$85,000, for 3-story, brick and frame apartment, Manly St.; brick and concrete foundations, 40x135 ft., 15 apartments, face brick, slate and Spanish tile roof, hardwood floors, mahogany doors, white wood work, ornamental tiling, wrought iron and tile porches; Poe Heating Co., 2-pipe Webster heating; Edens & Moon, plumbing; S. Trowbridge, Archt., both Greenville; Beaullien & Applewhite, roofing and sheet metal; both Atlanta, Ga. Noted April 3.

Tenn., Chattanooga-Bruce Redmon and associates have plans by and awarded contract to Stewart Construction Co., Chattanooga, for 16-suite, 2-story apartmen, Dun-can and Greenwood Sts.; 94x98 ft., red tapestry brick front, steam heat, garages in rear.

Tex., Cleburne-R. A. Johnson, Jacksonville, Tex., awarded contract to H. D. McCoy, Cleburne, for \$200,000, 4-story Liberty Hotel, James and Caddo Sts.; 70 rooms, all with bath; 100x120 ft.; O. H. Atkinson, Archt., Fort Worth. Noted April 24.

Va., Richmond-Hotel Richmond Realty Co., Thos. Gresham, Pres., will erect \$500, 000 hotel, not including site and furnishings, opposite Broad St., station, between Davis Ave. and Robinson St.; over 150 rooms with baths, first section 8, 10 or 12 stories, Lshaped, 85x130 ft., lobby and stores on first floor, concrete with steel frame, fireproof, stone and terra cotta front, will eventually have auditorium and 500 rooms: Wise Granite & Construction Co., Contrs.; Marcel lus E. Wright, Archt.; both Richmond.

W. Va., Grafton-Tobias & Martin awarded contract to H. F. Lane, Buckhannon, for \$50,000, 2-story, brick and hollow tile, 4family garage and apartment building; 60x 107 ft.; A. Breternitz, Fordyce Bldg., Clarks-

Miscellaneous

Ky., Lexington-Home-Children's Home, Edw. L. Waits, Supt., 209 W. 5th St. awarded contract to Combs Lumber Co., 439 E. Main-St., Lexington, for \$30,000, 2-story and basement brick dormitory; 40x66 ft.; Frank L. Smith, Archt., c/o Gen. Contr.

Mo., St. Joseph-Sam Hotchkiss has contract for Wesley Community House, 210 Cherokee St.; \$40,000, 2 stories, brick, 41x 100 ft., boiler room 24x19 ft.; Siemens & Arnold, Archts., St. Joseph.

Tex., Austin-I. Frank Estate awarded contract to Jno. Bingham, 1210 Garden St., for 2-story brick building, 301 E. 6th St., and 1-story brick building, 305 E. 6th.; \$30,000.

Tex., San Antonio-Sheds, etc.-San Antonio Co-operative Poultry Farm, T. W. Anderson, Sec., Maverick Bldg., contemplates erecting poultry sheds, houses, frame cottage, shacks on Mount Vernon Farm, Sommerset Road; construction by day labor.

W. Va., Institute-State Board of Control, Jas. S. Lakin, Pres., Charleston, awarded contract to Miller & Devine, Grafton, at \$48,000, for 3-story brick building at school for Colored Deaf and Blind; Wysong & Jones, Archts., Charleston, W. Va. (Noted Feb. 21-rejected all bids.)

Railway Stations, Sheds, Etc.

Okla., Bristow-St. Louis-San Francisco Rwy. Co., F. G. Jonah, Ch. Engr., St. Louis, awarded contract to Cagle & O'Connell, Tulsa, for \$40,000 brick depot. Noted March 13.

Schools

Ky., Bowling Green-Raymond Contracting Co. has contract for erecting \$50,000 Perry Snell Hall on Ogden College campus.

Ky., Russell-Board of Education, J. W.

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Ramey, Pres. awarded contract to J. H. Pennington, Russell, for auditorium and gymnasium an addition to high school; \$11,000. (Noted April 24.)

Md., Cumberland—Allegheny County Board of Education, W. B. Sperry, Pres. awarded contract to Jas. C. Powell, S. Liberty St., Cumberland, for 2-story and basement, brick and hollow tile school building, Frederick St.; \$49,880, 60x86-ft.; Wright Butler, Archt., 107 Union St., Cumberland. (Noted Feb. 28.)

Miss., Fort Gibson—School Board awarded contract to Messengale & McIntosh, Hattiesburg, at \$33,370 for high school; Fischer Heating Co., Memphis, heating at \$3200; Sanitary Plumbing Co., Vicksburg, plumbing at \$1601; Electric Contracting Co., Jackson, wiring at \$675; Emmitt Hull, Archt., Jackson. (Noted March 27.)

Mo., Columbia—Stephens College awarded contract to Murch Brothers Construction Co., Railway Exchange Bldg., St. Louis, at \$125,000 for 4-story, brick and concrete dormitory to house 150 girls; 64x172 ft., hardwood and concrete flooring, composition roof, concrete foundations, hollow tile; Jamieson & Spearl, Archts,, Arcade Bldg., St. Louis. Noted April 24.

Mo., Columbia—Stephens College awarded contract to Murch Brothers, St. Louis, for \$150,000 dormitory to house 150 girls. Noted April 21.

Mo., Hunnewell—Board of Education awarded contract to E. G. Kern, Milan, Mo. at \$15,622, for school building: Connely & Son, Shelbina, heating. (Noted Jan. 31—voted \$20,000 bonds.)

Mo., Kansas City—Redemptorist Fathers, Hunter Ave. and Broadway, awarded contract to P. J. Marley & Son, Sheidley Bldg., 9th and Main Sts., Kansas City, for \$350,000, 3-story, reinforced concrete, steel and brick school; 180x160 ft., concrete foundation, composition roof, hardwood, concrete, marble and composition floors, hollow tile, marble and composition floors, wants, ventilators, steel sash and trim, ornamental terra cotta; Kansas City Plumbing & Heating Co., heating; McGee Electric Co., 32nd and Summit Sts., electric wiring; T. P. Maloney, Independence Ave. and Prospect St., plumbing; Edgar P. Madorie, Archt., 1106 Continental Bldg.; all Kansas City. (See Machinery Wanted—Lighting Fixtures; Flooring (Composition).

Mo., Richmond—School Board, J. H. Trippe, Supt., awarded contract to J. W. Traub, Richland, for \$50,000 brick high school: 2 stories and becoment, 20 recome

School; 2 stories and basement; 20 rooms.

Mo., University City (Sta. St. Louis)—
Board of Education of University City will
erect \$80,000, 2-story, concrete and brick
school building; 57x100 ft., composition
(flat) roof, tile (steep) roof, steam heat;
Murch Bros. Construction Co., Contrs., 1856
Railway Exchange Bldg.; Ferrand & Fitch,
Washington University Archts.; both St.
Louis.

N. C., Lillington—Harnett County Board of Education, B. P. Gentry, Sec., awarded contract to B. L. Lucas Co., Raeford, N. C., for school buildings at Bunnlevel and Olivia; \$26,762 each; J. M. Kennedy, Archt., Raleigh, N. C. Noted April 10.

N. C. Summerfield—Gulford County Board of Education, Thos. R. Foust, Supt., Greensboro, awarded contract to Acme Lumber Co. Kernersville, at \$31,784, for brick over hollow tile school building; Northup & O'Brien, Archts., Starback Bldg., Winston-Salem. (Noted April 17.)

N. C., Waynesville—Waynesville Township School Trustees, Thos. Stringfield, Chmn., awarded contract to Chapman & Hunt, Oxford, N. C., at \$85,000 for 2-story, brick and concrete school building; 150x100 ft., concrete foundation, all buildings \$177,000; L. A. Miller, Waynesville, plumbing; Frank B. Simpson, Archt., Raleigh. Noted March 13.

Okla., Alva—State Board of Public Affairs, Oklahoma City, awarded contract to Beaty & Burns, Norman, Okla., at \$93,750 for administration building at State Teachers' College; 2 stories and tower, brick and concrete superstructure, concrete foundation, zinc roof, concrete floors, oak finish, vacuum system heating with blower auxiliary, vaults, vaultights, ventilators, hollow and interior tile, ornamental stone; Maurice Jayne, Archt., Oklahoma City. (Noted April 10.)

Okla., Bristow—Board of Education, Van D. Stout, Sec., awarded contract to Manhattan Construction Co., Muskogee, Okla., at \$105,000 for high school building; C. Lee Curran, Archt., Bristow. (Noted Mar. 20.)

Okla., Crescent—Board of Education, care of Chas. Graff, Clerk, awarded contract to S. P. Hughes, Linwood Blvd., Oklahoma City, for \$40,000 high school; 1-story and part basement, 100x200 ft., brick and stone; P. H. Weathers, Archt., 1006 Oil Exchange Bldg. Oklahoma City.

Okla., Edmond—Board of Education, O. W. Jefferies, Clerk, awarded contract to Kreipke-Schaffer Construction Co., Oklahoma City, at \$70,000, for 2-story and basement high school building; 144x104 ft., concrete foundations, concrete and maple flooring, composition roofing, hollow tile, vaults, steel sash and trim, wire glass, plans include auditorium, gymnasium, library, science rooms laboratories, dining rooms and class rooms; L. C. Kimsey, heating and plumbing at \$12,000; Morrison & Sorey, Archts.; both Oklahoma City, Okla. (Noted Mar. 13.)

Okla., Norman — State Board of Public Affairs, care of Carl Rice, Oklahoma City, awarded contract to C. M. Dunning Construction Co., Oklahoma City, at \$84,000 for Medical Arts building and to R. M. Crissman, Oklahoma City, at \$70,000 for Engineering building at Oklahoma University; 3 stories, tile and clay roofing, reinforced concrete and brick construction, 50x145 ft., e. g., pine and concrete flooring, reinforced concrete foundations, Gypsum tile, ventilators, ornamental stone, steam heat; Layton, Smith & Forsythe, Archts., Oklahoma City. (Noted April 10.)

S. C., Reidville—School Trustees, A. G. Bridwell, Chmn., awarded contract to E. T. Thornton, Enoree, for 6-room addition and remodel school building.

Tenn., Sweetwater—Monroe County Board of Education awarded contract to J. A. Cox & Son, Knoxville, at \$45,555.55 for grammar school; 12 rooms and auditorium to seat 800 people; A. B. Baumann & Son, Archts., Knoxville. Noted March 13.

Tex., Bartlett—Board of Education awarded contract to Herbst Construction Co., Dallas, at \$29,677 for 2-story, brick stone, reinforced concrete, fireproof addition to building; 44x72 and 44x62 ft. on either end; J. C. Leinbach, Archt., Dallas; subject to bond election April 30. (Noted April 3.)

Mo., Cameron—Board of Education, J. H.

Mo., Cameron—Board of Education, J. H. Hulsizer, Sec., awarded contract to Oklahoma City Building Co., Oklahoma City, for 2-story and basement \$100,000 brick, stone and reinforced concrete grade and high school building; 138x132 ft.; Clair McClean, Cameron, and H. E. Wagenknecht & Co., 2409 Mitchell Ave., St. Joseph, Mo., Asso. Archts. (Noted April 17.)

Tex., Fort Worth—Texas Christian University awarded contract to Jas. T. Taylor, Fort Worth, at \$118,250, for \$150,000 library building; gift of Mrs. Mary Couts Burnett; Brown & McLain, Fort Worth, plumbing and heating, at \$6250; W. G. Clarkson & Co.,

Archts., Fort Worth; Van Zandt Jarvis, Chmn. Library Building Comm. (Noted Jan. 10.)

Tex., Port Arthur—Port Arthur Independent School District awarded contract to H. W. McCord, Port Arthur, at \$59,000 for 2 story, brick and concrete 6-room school building; concrete foundation, green tile roofing, 36x100 ft., edge grain pine and concrete flooring, hollow tile, interior tile, wood block floors, ornamental terra cotta; A. H. Shafer, San Antonio, plumbing and heating; Hammond, Beaumont, electric wiring; Wm. B. Ittner, Archt., St. Louis, Mo.

Tex., Slaton—School Board awarded contract to Harter & Wheeler, Enid, Okla., at \$94,194, for 3-story school building; e. g. pine, concrete and cement flooring, tar and gravel roof, concrete foundation, hollow tile, metal ceilings, interior tile, wood block floors, vaults, ventilators, steel sash and trim, wire glass; Woolever & Sampson, Slaton, steam heat at \$14,511; E. F. Rittenberry, Archt., Amarillo. (Noted Dec. 13—voted \$125,000 bonds.)

W. Va., Morgantown—West Virginia University Stadium Corp., Brooks Fleming, Jr., Pres., awarded contract to Foundation Co., 120 Liberty St., New York City, for \$500,000 concrete and steel stadium; 400x600 ft., concrete foundation and flooring, hollow tile, ventilators, wire glass, steel sash and trim, rolling partitions; A. Zeek & Son, Morgantown, plumbing and heating; Michael Co., Norfolk, electric wiring; Osborn Engineering Corp., Archt., 7016 Euclid St., Cleveland, Ohio. Noted March 6.

W. Va., Wayne—Board of Education of Union District, G. B. Booth, Pres., awarded contract to King Lumber Co., Wayne and Charlottesville, for 2-story and basement grade building, \$47,940, 55x88 ft.; Geo. E. Hubbs, Archt., State Board of Education. Capitol Bidg., Charleston.

Stores

Fla., Miami—Chas. Sattler awarded contract to Threadgill & Noble, Miami, for 2-story store and apartment building, N. E. 24th St., near Second Ave.; \$50,000, 50x150 ft., 10 apartments on second floor.

Ga., Atlanta—W. T. Grant Co. awarded contract to Morris-McKoy Building Co., Greenville, S. C., to remodel 5-story building on Whitehall St., \$200,000.

La., Haynesville—F. C. McClannaban, Homer, has contract for brick building.

La., New Orleans—Wm. Mason Smith awarded contract to Gervais F. Favrot, New Orleans, at \$11,000, for alterations to 316 Carondelet St.; will be altered throughout, elevator installed and fronts added; Moise H. Goldstein, Archt., Hibernia Bldg., New Orleans.

Mo., St. Louis—H. A. Huger, 1033 Louisville St., will erect \$10,000 2-story store and dwelling, 2904 Union St.; 24x56 ft., tar and gravel roof, steam heat; Huger & Buecher Construction Co., Contr., 209 Wainwright Bldg.; W. P. McMahon, Archt., Title Guarantee Bldg.; both St. Louis.

N. C., Winston-Salem—C. D. and C. J.

N. C., Winston-Salem—C. D. and C. J. Ogburn awarded contract to Bebbow-Lindsay Co., Winston-Salem, for store building and filling station, Cherry and Sixth St.; 2 stories, 75x100 ft.; Northup & O'Brien, Archts., Winston-Salem. (Noted April 17.)

Okla., Drumright—Dr. C. E. Dahle has awarded following sub-contracts on business building: millwork, Pickering Lumber Co.; plumbing and heating, Hone Plumbing Co.; both Drumright; stone, J. Power; brick, American Brick & Tile Co.; both Oklahoma City; steel, Ben Sibbitt Iron & Foundry Co., Wichita, Kan.; R. M. Carpenter, Drumright, Archt. and builder.

Okla., Tulsa—S. H. Kress & Co. awarded contract to Shallenbarger Construction Co., Tulsa, at \$170,000, for 4-story store building; J. L. Heath & Co., heating, at \$11,000; Patterson Steel Co., structural steel, at \$26,000; both Tulsa; plumbing and wiring will be let by general contractor. (Noted November 22.)

S. C., Columbia—W. M. Burney awarded contract to J. C. Heslep, Columbia, for \$40,000 store and office building; W. B. Quimarin & Co., plumbing and heating; Lafaye & Lafaye, Archts.; both Columbia. (Noted April 24.)

Tenn., Memphis—D. A. Robinson has purchased Coffin property, 249 Washington Ave., and has plans by Estes, Williams, Ragsdale, Contrs., Memphis, for store building with car parking space in rear; 99x148 ft.

Tex., Beaumont—Jefferson County Board of Education awarded contract to H. J. Davis, Beaumont, at \$17,900, for school building at Amelia; 2 stories; Ed Eastham, plumbing, at \$1145; E. D. Hammall, electrical work, at \$222; both Beaumont; E. O. Taylor, Archt. Dallas, from firm of A. E. Hunt, with offices in Chattanooga, Tenn., and Dallas. (Noted March 27.)

Tex., Galveston-S. H. Kress & Co.

awarded contract to Owen Construction Co., Fort Worth, for tearing down Beissner Building and rebuilding; 2-story, 80-ft. frontage, boiler room, steam heat, display windows; R. C. Quinn, local mgr. (Noted April 24.)

Tex., Houston—Jas. A. Baker has awarded contract to W. A. Lang, Houston, for store buildings in district bounded by Travis, Main, Clay and Bell Aves.; \$130,000; A. C. Finn. Archt., Houston.

W. Va., Bluefield—Hancock & Sons have contract for Geo. Stovall building, Bluefield Ave. and Chestnut St.; 3 stories on Bluefield Ave., business, garage and apartments; Mahood & Can Dusen, Archts., Bluefield.

Theatres

Ky., Louisville—Mammoth Realty Co., 610 W. Walnut St., awarded contract to Platoff & Bush, 122 W. Liberty St., Louisville, for \$250,000 6-story and basement, reinforced concrete, brick, steel and terra cotta theater, office and apartment building; 70x150 ft., concrete foundations, composition pitch and gravel roofing, wood over concrete flooring, hollow tile, interior tile, metal doors, ventilators, ornamental terra cotta; Joseph & Joseph, Archts., Francis Bldg., Louisville.

N. C., Winston-Salem-Carolina Cork &

Rubber Tile Co., Phil Warner, Mgr., High Point, N. C., has contract for rubber and tile work at about \$2000, in Lincoln Theater, under construction.

Va., Richmond—Dr. Ira J. Haynes, P. O. Box 24, awarded contract to J. W. Atkinson & Co., Richmond, for 2-story, \$32,000, steel frame and hollow tile walls theater building, North Boulevard; 40x135 ft., wood flooring, concrete foundation, 5-ply built-up roof; C. K. Howell, Inc., Archt., 700 E. Broad St., Richmond.

Warehouses

Fla., Jacksonville—Commodore Point Terminal Co. will erect \$50,000 1-story steel warehouse, north side Adams St. at St. Johns River; 100x135 ft., galvanized iron roof, concrete or piling foundations, briek flooring; Virginia Bridge & Iron Co., Roanoke, Va., steel; McGarvey Cline, Engr., 1951 Riverside Ave., Jacksonville. Owner builds.

La., New Orleans—Nu Grape Bottling Co., L. J. Roberts, Pres., has leased warehouse at 539-41 South Front St. and contemplates erecting partitions and renovating. Construction by day labor.

S. C., Inman—Enoch Lawrence awarded contract to Brittain & Strange, Inman, for \$15,000 cotton warehouse and ginnery.

MACHINERY, PROPOSALS, AND SUPPLIES WANTED

Air Compressor.—See Tool Forming and Sharpening Machine.

Boiler .- See Engine and Boiler.

Boiler.—Treasury Dept., Supvrs. Architects Office, Washington, D. C.—Bids until May 19 to remove present boiler, and to furnish and install new horizontal, portable, smokeless, fire box steel heating boiler at U. S. Post Office, Nevada, Mo.

Boiler (Portable).—Oliver Carter, Wilmington, N. C.—To purchase 25 to 35 h, p. portable boiler, either skids or wheels, with or without engine attached; give complete details, condition, etc.

Bridge.—Catawba county, Newton, N. C. Details under Construction News—Bridges, Culverts, Viaducts.

Bottles (Prescription), etc.—The Woodlawn Laboratories, 314 N. Presa St., San Antonio, Tex.—To purchase 2cc amber glass ampoules and a 4-oz. amber glass prescription bottle; correspond with manufacturers.

Bridge.—Harris County, Houston, Tex.— Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—Hinds County, Jackson, Miss., will improve 4 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—City of Fayetteville, N. C., will build 5 bridges and culverts. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—Chester County, Chester, S. C. Details under Construction News—Road and Street Construction.

Bridge Construction.—Commrs. of South Creek Drainage Dist., Washington, D. C. Details under Construction News—Drainage and Irrigation.

Bridge.—Harrison County Court, Clarksburg, W. Va. Details under Construction News—Road and Street Construction.

Bridge.—Barneu Baker, Hazard, Ky. Detail sunder Construction News—Bridges, Culverts, Viaducts.

Building Material.—Edgar P. Madorie, Archt., 1106 Continental Bldg., Kansas City, Mo.—Prices on blackboards, steel sash, roofing, re'nforcing steel, structural steel, hardwood floors, terra cotta, heating materials, plumbing, hot-water heaters, vacuum cleaners, etc., for \$60,000, 10-room and auditorium school for St. James Parish.

Building (Clay) Tile Machinery—Edward J. Owen, Erwin, Tenn.—To correspond with manufacturers (in the South) of clay building tile machinery.

I-Beams and Channels.—Joliet Bridge Co., Burlington, N. C.—Prices f. o. b. Burlington on fifty 9-in I-beams, 21.8 lb., 19 ft. 9-in. long; twenty-five 9-in I-beams, 21.8 lb., 21 ft. 7-in. long; twenty 9-in. channels, 13.4 lb., 19ft. 9-in_long; and ten 9-in channels, 13.4 lb., 21 ft. 7-in. long.

Car (Tram).—See Quarry (Granite) Machinery.

Cars (Dryer). — Mills Equipment Corp., Chattanooga, Tenn.—To purchase thirty double deck, 24-in. gauge dryer cars.

Cars (Flat).—A. C. Love Co., Huntington, W. Va.—To purchase two 80,000 capacity steel under frame flat cars MCB.

Castings(Iron).—See Waterworks and Sewer Materials.

Cement.—See Waterworks and Sewer Materials.

Cement.—City, J. F. Atkins, Mayor, Savannah, Tenn.—Data and prices on cement for 17,000 sq. ft. concrete paving.

Chairs.-See Furniture.

Clayworking Machinery. — See Building (Clay) Tile Machinery.)

Cotton Gin Equipment.—M. B. Dickerson, R. D. No. 1, Oxford, N. C.—Prices on three 70-saw cotton gin outfit, complete equipment; second-hand prefered.

Crusher (Rock).—Franklin County Fiscal Court, Frankfort, Ky.—Bids until May 8 for rock crusher.

Desks (Wood).—Treasury Dept., Supvr. Architect's Office, Washington, D. C.—Bids until May 16 for wood lobby desks for Federal buildings.

Derrick.—See Quarry (Granite) Machinery.
Drainage System.—Commrs. of South Creek
Drainage Dist., Washington, N. C. Details

under Construction News-Drainage and Irrigation.

Drafting Supplies.—U. S. Marine Corps. Quartermaster's Dept., Washington, D. C.—Bids until May 5 to furnish 48 protractors; 24 triangles; 108 bottles drawing ink; 6 erasing shields; 12 irregular curves; 12 rolls solar paper and 6 rolls cross-section paper; delivery Quantico, Va. Sch. 473.

Dredging.—City of Omaha, Neb., James P. Hoctor, Clk. Bids until May 13 for filling in and reclaiming park grounds at Levi Carter Park, by dredging; work includes more than 1.000.000 cu. yds. material.

Electric Lighting.—City of Johnson City, Tenn. Details under Construction News— Electric Light and Power Plants.

Electric Light Plant Equipment. — See Water and Light Plant Improvements.

Engines .- See Quarry (Granite) Machinery.

Engine and Boiler.—Southern Construction & Mill Supply Co., Houston, Tex.—To purchase 1200 h. p. Corl'ss engine, also 1500 h. p. boiler; can be in several units with all necessary boiler and engine room equipment.

Garnet Paper.—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.,—Bids opened May 1 to furnish 30 rolls garnet paper; delivery Quantico, Va. Sch. 475. . .

Flooring (Composition). — Edgar P. Madorie, Archt., 1106 Continental Bldg., Kansas City, Mo.—Prices on composition flooring for \$350,000, 3-story school for Redemptorist Fathers.

Furniture.—U. S. Marine Corps., Quartermaster's Dept., Washington, D. C.—Bids until-May 7 to furnish 175 mirrors and 48 din'ng chairs; delivery Quantico, Va. Sch. 483.

Generator (Electric).—See Water and Light Plant Improvements.

Generator (Electric). — Hackley-Morrison Co. (Mchy. Dealers), 1798 Lewis St., Richmond, Va.—To purchase A. C. generator, 40 to 50 kilowatts, 3 phase, 60 cycle, 440 volts, belted or direct connected.

Gravel.—Duval County Commrs., R. H. Carswell, Chrmn., Jacksonville, Fla.—Bids until May 12 for 3000 to 6000 tons of Augusta

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gravel, delivered f. o. b. cars at Whitehouse and Maxwell, Fla.

Gravel.-Louisiana Highway Comn., Rey-Reymond Bldg., Baton Rouge, La.-Bids until May 22 for gravel to surface 8 mi. road in Bienville Parish.

Gravel.-Louisiana Highway Comn., Rey mond Bldg., Baton Rouge, La.-Bids until May 13 for gravel to surface .46 mi. in Pointe Coupee Parish.

Handling (Crushed Stone) Equipment. G. Y. Carpenter, Contr., Chesterfield, County Bank Bldg., Chester, Va.-To purchase unloading devices, to handle crushed stone from cars; will consider second-hand machinery.

Hoist .- A. C. Love Co., Huntington, W. Va.-2500 lb. capacity, gasoline, single drum mine hoist.

Hosiery Mill Equipment.-Leslie M. Washington, 1310 Virginia St., Charleston, W. Va.

—Data and prices on establishing small hosiery mill.

Hoist (Electric) Swinger. - A. C. Love, Huntington, W. Va.-Electric swinger for hoist, AC current.

Jointer (Glue) .- Tom Huston Manufacturing Co., Columbus, Ga.-To purchase secondhand, glue jointer.

Kerosene. - Panama Canal, Al. L. Flint, General Purchasing Officer, Washington, D. C.—Bids until May 12 to furnish 150,000 gal. kerosene jn 50 gal. galvanized steel drums, in three deliveries of 50,000 gal. each. Blank forms and information (Circular 1608) on application to offices of Panama Canal; Asst. Purchasing Agents at Fort Mac son, San Francisco, Cal.

Laboratory Supplies .- See Bottles (Prescriptions), etc.

Lead .- B. B. Dawson, 32 Dover St., Sparrows Point, Md .- To purchase either new or junk lead.

Lathe.-Oliver Carter, Wilmington, N. C. -To purchase small screw cutting engine lathe about 11 in. swing, 2 ft. between centers with chuck, face plate and counter shaft.

Lighting Fixtures.—Edgar P. Madorie, Archt., 1106 Continental Bldg., Kansas City. Mo.-Prices on lighting fixtures for \$350,000, 3-story school for Redemptorist Fathers.

Log Loader.—Oliver Carter, Wilmington, N. C.—Ao purchase American, Barnhart type log loader; second-hand equipment.

Metal Novelties.—Lon A. Bernard, 1820 Rusk Ave., Houston, Aex.—To contract for the manufacture of small metal novelty, to be stamped out of sheet metal.

Mirrors.-See Furniture.

Metals.—F. A. Landford, 616 Mountain Ave., S. W., Roanoke, Va.—To purchase ground silica, nickel and silver.

Miscellaneous Supplies .- Panama Canal, A. L. Flint, General Purchasing Office, Washington, D. C .- Bids until May 9 to furnish centrifugal pumps; pipe and fittings; drawncopper moulding; screws; cocks; valves; door sheaves and track; hinges; journal jacks; lathe chucks; cup hooks; water gauges and glasses; hammer handles; piston packing leathers; horse hide gloves; fiber washers; marine logs and poplar lumber. Blank form and information (Circular 1606) on application to offices of Panama Canal; Asst. Purchasing Agents at Fort Mason, San Francisco, Cal.

Motor (Electric).-See Waterworks and Sewer Materials.

Motor (Electric) .- M. B. Dickerson, R. D. No. 1, Oxford, N. C.-Prices on 40 h.p. electric motor for use in cotton gin.

Nails, etc.-Mississippi River Comsn., 140

nails and wire; also on May 5 for 6 and 9in, wooden tree nails.

Oil Burning Apparatus.-Treasury Dept., Supvg. Architect Office, Washington, D. C. -Bids until May 23 to furnish and install new oil burning apparatus, storage tank, etc., at U. S. Post Office, Reno, Nev.

Oil Burning Apparatus.—Treasury Dept., Supvg. Architect's Office, Washington, D. C.—Bids until May 26 to furnish and install oil burning apparatus, etc., at U. S. Postoffice and Courthouse, Tulsa, Okla,

Paving.—City of Marlin, Tex. Details under Construction News-Road and Street Construction.

Paving, etc.-City of Forsyth, Ga. Details under Construction News-Road and Street Construction.

Paving, etc.-City of Baltimore, Md. Details under Construction News-Road and Street Construction.

Paving, etc.-Town of Haines City, Fla Details under Construction News-Road and Street Construction.

Paving, etc.—Board of Awards, Baltimore, Md. Details under Construction News-Road and Street Construction.

Paving.-City of St. Petersburg, Fla.-Details under Construction News-Road and Street Construction.

Paving.-City of Montgomery, Ala.-Details under Construction News-Road and Street Construction.

Paving.-City of Tavares, Fla.—Details under Construction News-Road and Street Construction.

Paving .- City of Aiken, S. C .- Details under Construction News-Road and Street

Paving (Asphalt Macadam) .- G. Y. Carpenter, Contr., Chesterfield County Bank Bldg., Chester, Va .- To purchase asphalt macadam equipment, including unloading devices; will consider second-hand machinery.

Paving, etc.-City of St. Albans, W. Va. Details under Construction News-Road and Street Construction.

Paving .- City of Attalla, Ala. Details under Construction News-Road and Street Construction.

Paving Blocks, etc. — District Commrs., Room 509, Dist. Bldg., Washington, D. C.— Bids until May 12 to furnish repressed vitrified paving blocks and sewer invert bricks for use during fiscal year ending June 30, 1925.

Pipe (Galvanized).-See Waterworks and Sewer Materials.

Pipe.—Joseph Stolz & Son, Inc., Commerce Ave., Highbridge Station, New York—1000 pieces of new or second-hand pipe, 1-in.x6%-

Pipe (Cast Iron).—Water Works Improvement District, No. 2, E. V. Leverett, Engr., Conway, Ark.—To purchase about 7 miles of Class B, bell and spigot cast iron pipe, in 6, 8 and 10-in. sizes; used or new.

Pontoons.—U. S. Engineer Office, 428 Custom House, St. Louis, Mo.—Bids until May 9 to furnish twelve steel dredge pontoons, 471/2 ft. x 16x3-ft.

Power House Construction.-U. S. Engineer Office, Huntington, W. Va.—Bids until May 28 to construct fireproof power house at Dam No 32. Ohio River.

Pumps (Centrifugal).—City of Vicksburg, Miss., J. J. Hayes, Mayor.—Bids until May 5 to furnish and install seven centrifugal pumps (four 6-in. and three 8-in.); installed in four pump houses; F. J. Martin, resident Engr., at office of P. P. Williams & Co.

Decatur St., New Orleans, La.—Bids until Pump (Fire Protection).—Hunter Machin-May 7 to furnish and deliver 535,000 lbs. ery Co. (Mchy. Dealers) Marion, N. C.—To

purchase underwriters fire protection pump. 1000 gal. capacity per min., second-hand equipment.

Pump (Dredging) .- U. S. Engineer Office, Wilmington, N. C.—Bids until May 15 to furnish and deliver one 20-in. dredging pump, etc., for dredge Henry Bacon.

Quarry (Granite) Machinery. — Fairfield County Granite Co., Winnsboro, S. C.—To purchase 50 to 100 h. p. steam or crude oil engine for running air compressor, hand and power derrick, also tram car and light rails; prefer second-hand equipment if in good condition.

Reinforcing Steel.—See Waterworks and Sewer Materials.

Road.-Calcasieu Parish, Lake Charles, La. Details under Construction News- Road and Street Construction.

Road .- Chester County, Chester, S. C. Details under Construction News-Road and Street Construction.

Road.—Marlboro County Commrs., Bennettsville, S. C., will build 2 roads. Details under Construction News-Road and Street Construction.

Road .- State Highway Dept., East Point, Ga., will improve 2 roads. Details under Construction News-Road and Street Construction.

Road .- Jack County, Jacksboro, Tex. Details under Construction News-Road and Street Construction.

Road.—Palm Beach county, West Palm Beach, Fla., will build 3 roads. Details under Construction News-Road and Street Construction

Roads .- State Highway Comn., Richmond, Va.. builds 9 roads. Details under Construction News-Road and Street Construction

Road Machinery.-State Board of Control, care of R. B. Walthall, Austin, Tex.—Bids until May 15 for 125 4-horse graders with 7-ft. blade; 16 tractor drawn graders with 8-ft. blades; approximate weight to be 4000 lbs.; extra attachments to be listed and described; J. W. Francis, Equipment Engr., Austin, Tex.

Road .- State Highway Comn., Mongomery, Ala. Details under Construction News-Road and Street Construction

Road.—Marion County, Fairmont, W. Va., will improve 23 roads. Details under Con-struction News-Road and Street Construction

Road.—Charlotte County, Punta Gorda, Fla. Details under Construction News-Road and Street Construction.

Road. — Letcher County Fiscal Court, Whitesburg, Ky. Details under Construction News-Road and Street Construction.

Road.—Harrison County Court, Clarks-burg, W. Va., will improve 3 roads. Details under Construction News-Road and Street Construction.

Road .- State Roads Comn., Baltimore, Md., will improve 6 roads. Details under Construction News-Road and Street Construction.

Road.—Louisiana Highway Comn., Baton Rouge, La. Details under Construction News—Road and Street Construction.

Road.-Louisiana Highway Comn., Baton Rouge, La.—Details under Construction News-Road and Street Construction.

Road .- Harris County, Houston, Tex. Details under Construction News-Road and Street Construction.

Rock .- Duval County Commrs., Carswell, Chrmn., Jacksonville, Fla.-Bids until May 12 to furnish 5000 to 30,000 tons of Florida lime rock; delivered f. o. b. cars Jacksonville.

Rock.—Franklin County Fiscal Court, Frankfort, Ky.—Bids until May 8 to furnish rock, crushed.

Rotary Converter—C. M. Roswell, (Mchy. Dealer), 1162 Marlyn Road, Philadelphia Pa.—1000 k.w., 600 volt, d.c. railway type, 60 cycle, rotary converter with or without transformers for operation from a 3 phase, 13,200 volt, 60 cycle circuit.

Roofing.—Constructing Quartermaster's Office, Room 510, 39 Whitehall St., New York.—Bids until May 2 for roofing repairs to warehouse, No. 138, Governors Island, N. Y.

Saw (Band).—A. C. Love Co., Huntington, W. Va.—One 36-in, band saw.

School Equipment.—Board of School Trustees, Biloxi, Miss.—Bids until May 26 on following equipment, delivered: 600 student desks; 1500 opera chairs; 17 two-drawer teachers' desks; 7 teachers' chairs; 6 flat top pedestal office desks; one swivel chair; 10 office arm chairs; 18 quartered or plain oak library tables, approximately 34x60; 80 quartered or plain oak library chairs; 350 steel lockers, 2 tiers, 12x12x72-in.; 7 supply steel lockers; 12 typewriter tables; 24 bookkeeping desks; double roller window shades for 3 8-room buildings; 8 office cabinets for filing; state prices delivered; desks and chairs to be installed.

Seating.—Board of Aldermen, Macon, Ga.—Bids until May 12 for 200 opera seats or other suitable seats.

Sewer Construction Materials.— See Waterworks and Sewer Materials.

Sewer Construction.—A. J. Hawkins, City Engr., Birmingham, Ala.—Bids until May 20 to construct approximately 14,000 lin. ft. of 8-in., 4,000 lin. ft. of 10-in., 2,000 lin. ft. of 12-in., 4,000 lin. ft. of 15-in. and 1,200 lin. ft. of 18-in. terra cotta sewers; 4500 lin. ft. 3-in. sewers; together with necessary manholes and appurtenances; Improvement Ordinance No. 346-D.

Sewer Construction.—See Waterworks and Sewer Construction.

Sewer Construction—City of Huntington, W. Va. Details under Construction News— Sewer Construction.

Sewer.—City of Forsyth, Ga. Details under Construction News—Road and Street Construction.

Sewer and Water Works Construction.— Burlington Mills, Inc., Burlington, N. C. Details under Construction News—Sewer Construction.

Shear.—Decatur Cornice & Roofing Co., Inc., Albany, Ala.—To purchase one gate shear, %-in. capacity, 36-in. between housings, and 8 to 12-in. throat; will consider good used machine.

Sidewalks.—City of Greensboro, N. C. Derails' under Construction News—Road and Street Construction.

Structural Steel.—J. Q. Poindexter, Ravine, Miss.—To correspond with manufacturers of structural steel for bridges.

Swimming Pool Improvements.—Bureau of Yards and Docks, Navy Department, Washington, D. C.—Bids until May 14 for scum gutter for swimming pool at Naval Academy, Annapolis, Md.; work consists of removal of and modification of existing work and in stalling concrete and cement mortar work, scum gutter, tile work, drains and drain conections; specifications No. 4792.

Steel (Structural and Reinforcing).—See Building Materials.

Tanks (Gasoline).—Hackley Morrison Co., (Mchy. Dealers) 1708 Lewis St., Richmond, Va.—To purchase two gasoline tanks, 7000 to 10.000 gal. capacity.

Tank and Tower (Water).—See Waterworks and Sewer Materials. Tool Forming and Sharpening Machine.— City Hall, Baltimore, Md.—Bids until May 7 to furnish and deliver one air operated tool forming and sharpening machine with air compressor; V. B. Siems, Water Engr., Room 205, City Hall.

Tool Steel, etc.—U. S. Marine Corps, Bids until May 2 to furnish 1200 ft. tool steel; Quartermaster's Dept., Washington, D. C.—30 bars round iron and 10 bars of flat iron; delivery Quantice, Va. Sch. 476.

Tractors.—G. M. Harrington, Engr., Ludowici, Ga.—Data and prices on tractors for road building.

Tractors.—C. D. Fuller, Hunt County Auditor, Greenville, Tex.—Bids until May 12 for one or more 10-ton crawler type road tractor, 40 to 60 h.p.

Transformer. — Hackley Morrison Co. (Mchy. Dealers), 1708 Lewis St., Richmond, Va.—To purchase one transformer 6600-220-volt, each 7½, 10, 25 and 37½ KVA.

Trucks (Motor).—G. M. Harrington, Engr., Ludowici, Ga.—Data and prices on motor trucks for road building.

Water and Light Plant Improvements.— City of New Iberia, La. Details under Construction News—Water Works.

Water Works Improvements.—Town of Weldon, N. C., W. W. Wiggins, Mayor—Bids until June 3 to construct water works improvements: brick and concrete pumping station, filter house and filter tubs; concrete coagulating basin; concrete storage reservoir; filter plant equipment; steel water tanks and tower; brick and concrete auxiliary station; motor driven centrifugal pumps and accessories; Gilbert C. White Co., Engr., Durham, N. C.

Water Works and Sewer Construction. Town Council, Altavista, Va.—Bids until May 19 to construct filtration and pumping plant for municipal water works, also water and sewer mains, work includes: 650 ft. of 10in, cast iron suction main with appurtenances; concrete and brick building for plant: 30,000 gal. steel water tanks; 5,500 ft. of 8-in cast iron force mains: 50,000 gal. steel stand pipe: 2 low service centrifugal pumps each 350 g.p.m. capacity; 2 high service centrifugal pumps each 350 g.p.m. capacity one 30 h.p and one 75 h.p. electric motor with wiring, etc; 1 semi Diesel fuel oil engine not less than 45 h.p.; all necessary filter equipment for single 500,000 g.p. day units; cast iron mains from 4 to 10-in, also sewer mains from 6 to 15-in.; W. S. Corbin, Chrmn. of Water Committee, Altavista; the Ambler Engineering Co., Engr., Richmond, Va.

Water Works and Sewer Materials .-Commrs. of Public Works and Sewerage, M. H. Cox, Chrmn., Latta, S. C.-Bids until May 5 to furnish following material and equipment for water works and sewer system: 75 g.p.m. deep well pump; 10 h.p., 220 volt, 3 phase, 60 cycle, 1200 rpm. slip ring motor; three KVA, 2200/220-110 transformers; 750 g p.m. centrifugal pump; 75 h.p. 2200 volt, 3 phase, 60 cycle, 1800 r.p.m. slip ring motor; 75,000 gal. steel tank on 100 ft. tower; 24 ft. of 1-in., 96 ft. of 12-in., 48 ft. of 10-in., 132 ft. of 8-in. B. and S. pipe. Class A; 1800 ft. of 8-in. and 7176 ft. of 6-in B and S pipe, Class B. or centrifugal; 5 tons cast iron fittings; 11,450 ft. of 1-11/2-in. galvanized pipe; 23 standard hydrants, 6-in. base, 3 ft. ditch: five 8-in, and ten 6-in. H. E. gate valves and boxes: thirteen 1-1/2-in. H. E. gate valves and boxes; 500 bbls. Portland cement; 100 cu. yds. concrete sand; 60 cu. yds brick sand; 220 tons crusher rock or washed gravel: 15,000 lbs, reinforcing steel: three 200 lbs.manhole castings and seventy four 300 lbs. manhole castings; 240 manhole steps; 57,500 all hard common brick; 2000 lbs. dry jute; 400 lbs. oiled jute; 11,500 lbs. virgin pig lead; 11 automatic flush tank syphons; 4545 ft. of 15-in., 3175 ft. of 12-in 2615 ft. of 10-in., 14,735 ft. of 8-in. No. 1 sewer pipe; necessary sewer pipe specials; C.; J. B. McCrary Co., Contrs., Atlanta, Ga. Ryan Engineering Co., Engrs., Columbia, S. C.

Wire .- See Nails, etc.

Wire (Copper). — Hackley Morrison Co. (Mchy. Dealers), 1708 Lewis St., Richmond, Va.—2700 lbs. of No. 2 medium hard drawn copper wire.

Woodworking Machinery. - See Jointer (Glue.)

Financial News

New Financial Corporations

Ala., Birmingham—Allen Investment Co., incorporated by W. E. Gibson, Ben Davis and others.

Ala., Birmingham—Fourth Avenue Investment Co., Inc., chartered by J. H. Means, N. J. Nesbit and others.

Ala., Selma—Academy Investment Co., Inc., chartered by Robert Wilby, Joseph L. Gill and others.

Ala.. Silverhill—Silverhill State Bank, capital \$10,000, chartered with Oscar Johnson, Pres.; Peter Forsman, Cashier.

Fla., Bradentown—Raparian Securities Co., capital \$15,000, incorporated with W. D. Shelby Critchlow, Pres.; Mary Pledger, Sec-Treas.

Fla., Daytona—McDonald Investment Co., capital \$100,000, incorporated with W. J. McDonald, Pres.; Cochran Keating, Sec.

Fla., Leesburg-Leesburg Loan & Savings Co., capital \$100,000, organized with Fred W. Pledger, Pres.

Fla., Miami—Phoenix Mortgage & Loan Co., capital \$50,000, incorporated with H. C. Judy. Pres.; Buela M. Thompson, Sec.-Treas.

Fla., Miaml—H. T. Sanders & Co., Inc., capital \$30,000, chartered with H. T. Sanders, Pres.-Treas.; K. M. Sanders, Sec.

Fla., Tampa—Frazee Trust Co., capital \$50,000, incorporated with Hafford Jones, Pres.; F. C. Frazee, Sec-Treas.

Fla., Tampa—Security Discount Co., incorporated with Charles F. Hoffman, Pres.; Dorothy F. Tyler, Sec-Treas.

Fla., West Palm Beach—Lauenborg Building & Investment Co., 608 Citizens Bank Bldg., capital \$10,000, organized with A. H. Lauenborg, Pres.; E. S. Lauenborg, Sectrens.

Ga., Atlanta—Mortgage Guarantee Co., of America, capital \$1,000,000, incorporated by Lee Hagan, Jos. A. McCord, Jr. and others.

Ga., Brunswick—Empire Finance Co. incorporated by Edwin R. Fendig, Joseph B. Hand and L. J. Lennett.

Ky., Louisville—Parkway Building & Loan Assn., capital \$100,000, incorporated by I. H. Bocker, J. S. Smith and others.

Md., Baltimore—Lawrence Realty & Mortgage Co., Equitable Bldg., capital \$100,000, chartered by Alfred D. Andriesse, Wm. S. Willman and others.

Md., Baltimore—United Power Securities Co., Calvert Bldg., capital \$100,000, incorporated by Geo. S. Newcomer, Douglas H. Rose and others.

Md., Baltimore—Excello Building & Loan Assn., 839 Hollins St., capital \$500,000, incorporated by Ellis Kurland, Morris E. Kerpelman and others.

Md., Baltimore—Maryland Securities Corp., 901 American Bldg., capital \$50,000, incorporated by Albert S. Jordy, Pres.; James J. Harrington, Cashier.

Md., Baltimore—Southern Maryland Building Assn., Inc., 1105 Druid Hill Ave., capital \$520,000, chartered by Don S. S. Goodloe, John J. Flynn and others.

Md., Baltimore—North American Building & Loan Assn., Eutaw Place & North Ave., capital \$250,000, incorporated by Irving Gordon, Joseph M. Frehling and others.

Md., Westminster—James E. Smith & Son, Inc., capital \$10,000, chartered by Harry T. Poor, Robert K. Miller and others.

Mo., Cape Girardeau—Eagles Securities, Inc., capital \$50,000, chartered by C. L. and R. D. Harrison and others.

Mo., Mexico—Town—Mutual Fire Insurance Co., incorporated by B. F. Haskell, F. A. Sannebeck and others.

Mo., Springfield-McDaniel National Bank reorganized with George McDaniel, President.

Mo., St. Louis—National Investment Corp., capital \$50,000, incorporated by A. A. Freund, Oliver F. Erbs and others.

Mo., St. Louis—Robert W. Morrison Investment Co., capital \$60,000, incorporated by Robt. W. Morrison, John W. Morrison and others.

N. C., Andrews—J. S. Bradley, Rockmart, Ga., interested in organizing First National Bank of Andrews with \$50,000 capital.

N. C., Greensboro—Carolina Credit Co., 406 Dixie Bldg., capital \$100,000, organized with H. S. Richardson, Pres.; E. G Michaels, Sec., and Gen. Mgr. (Noted April 24.)

N. C., Raleigh—Inter-State Finance Corp., capital \$100,000, chartered by Edwin E. Stretcher, Cale Burgess and others.

Okla, Quinlan—Quinlan Farmers Loan Co., capital \$10,000, incorporated by C. E. Washburn, E. E. Thomas and others.

Okla., Shawnee—Shawnee Securities Co., capital \$50,000, incorporated by Mark Goode, Frank V. Sims and others.

Tenn., Springfield—Moore Bank & Trust Co., capital \$10,000, incorporated by G. S. Moore, E. A. Covington and others.

Tex., Dallas—Trinity Investment Co. incorporated by H. M. Shaw, A. A. Long and others.

Tex., Houston—Howard Investment Co., capital \$100,000, incorporated by Geo. F. Howard, Garland Bonner Howard and others.

W. Va., Clarksburg—Mountain State Brokerage Co., capital \$10,000, incorporated by M. E. G. Griffith, C. H. Thrash and others.

New Securities

Ala., Beatrice—Road—Town plans bond issue. Address The Mayor.

Ala., Birmingham—Mortgage—Birmingham Electric Co., sold \$8,000,000 first and refunding mortgage 6% bonds to Harris Forbes & Co., New York,

Ala., Sheffield—Street Improvement—City Comn. sold \$315,000 bonds to Marx & Co., Birmingham, and Wells & Co., Nashville,

Ark., Little Rock—School—School Board sold \$225,000 6% bonds jointly to M. W. Eikins Bonding Co., Little Rock, and Twin City Bank, North Little Rock, on basis of 10444.

Flat, Bradentown—Municipal Improvements
—City contemplates bond issue. Address the
Mayor.

Fla., Babson Park—School—Babson Park School Dist. voted \$25,000 bonds. Address Pres. School Board.

Fla., Center Hill—Improvement—City sold \$42,000 6% bonds to Hanchett Bond Co., Chicago, Ill., at discount of \$1550, equal to 98 30

Fla., Clearwater—Gas Plant—City Comn. receives bids May 5 for \$150,000 $5\frac{1}{2}$ % \$1000 denom, bonds.

Fla., Daytona Beach—Town, E. A. Donovan, Clk., receives bids May 27 for \$174,000 6% bonds.

Fla., De Land—School—Volusia County, Geo. W. Marks, Sec. and County Supt., sold \$125,000, 5½ per cent Special Tax School Dist. No. 6, Daytona bonds to W. L. Slayton & Co., Toledo, Ohlo, at \$128,875; and \$120,000 5½ per cent Special Tax School Dist. No. 12, Deland bonds to Sidney, Spitzer & Co., Toledo, at \$124,104. Noted April 3.

Fla., Fort Lauderdale—School—City voted \$75,000 bonds. Address The Mayor.

Fla., Jacksonville—Road—Duval County Board of Commrs, receives bids May 28 for \$1,500,000 bonds.

Fla., Miami—Street Improvement—City defeated \$125,000 bond issue; F. H. Wharton, City Mgr.

Fla., Miami—Municipal Improvements— Dade County plans voting on \$1,127,743 bonds. Address County Commrs.

Fla., Key West—Municipal Golf Course— City votes this week on \$60,000 bonds. Address the Mayor.

Fla., Ocala—School—Ocala Special Tax School Dist. voted \$100,000 bonds; H. G Shealy, Supt. of Public Instruction of Marion County. Noted April 3.

Fla., Ocala—School—Ocala Special Tax School Dist. No. 1 voted \$100,000 bonds; H. G. Shealey, Supt. of Public Instruction of Marion County. (Noted April 3 to vote on bonds.)

Fla., Sarasota—Water Electric Light Plant—City voted \$125,000 for electric light and \$90,000 for water system extensions. Address The Mayor.

Fla., Sebring—School—Highlands County Board of Public Instruction, W. A. Marshall, Supt., receives bids May 14 for \$17,500 6% \$1000 denom. Special Tax School Dist. No. 3 bonds, and \$15,000 6% \$1000 denom. Special Tax School Dist. No. 6 bonds.

Fla., St. Petersburg—Municipal Improvements—City, S. S. Martin, Director of Public Finance, votes May 20 on \$1,453,000 514% \$1000 denom. bonds.

Fla., Tampa—School—Hillsborough County, J. E. Knight, Sec. Board of Public Instruction, sold \$60,000 6% Hillsborough County Special Tax School Dist. No. 45 bonds to Bank of West Tampa at premium of \$1650.

Fla., Tampa — Municipal Improvements—City, Perry G. Wall, Mayor, voted \$2,945,000 bonds. (Lately noted.)

Fla., Tampa—Drainage—W. J. McDonald, Treas., receives bids until May 14 for \$189,-000,6% Dover Drainage Dist. bonds.

Fla., West Palm Beach—Street Improvements—City voted \$125,000 bonds. Address the Mayor. (Lately noted.)

Ga., Edison—School—A. L. Miller, Atty., receives bids this week for \$175,000, 5½% Edison-Salem School Dist., bonds. (Noted April 17.)

Ga., Perry School—Board of Trustees, Perry Consolidated School Dist., H. P. Hauser, Sec., receives bids until May 16 for \$60,000, 5%, bonds. (Noted March 27, bids until April 17.)

Ga, Sylvania-School-Board of Trustees

sold \$45,000 bonds to National Bank of Sylvania, at \$46,000 with accrued interest.

Ky., Hickman-Road-Fulton County Fiscal Court ordered sale of \$100,000 of \$450,000 bonds.

La., Arcadia—School—City sold \$55,000 6% Bienville Park School Dist. bonds to Whitney Central Trust, care of Savings Bank of New Orleans, La.

La., Bastrop—School—Morehouse Parish Police Jury sold \$75,000 6% Morehouse Parish School Dist. No. 1 bonds to Hanchett Bond Co., Inc., Chicago, Ill., at premium of \$2300.

La., De Ridder—School—City votes May 18 an \$90,000 bonds. Address Pres. School Board.

La., Homer—Road—Claiborne Parish voted \$800,000 bonds; R. Q. Etzel, Clk. Police Jury. Lately noted.

Md., Annapolis—School—Board of Education of Anne Arundel County receives bids until May 27 for \$225,000, 4½% bonds; George Fox, Supt. of Schools.

Md., Baltimore—Road and Bridge—Board of Public Works receives bids until June 11 for \$1,500,000 State road bonds, and \$300,000 bridge and grade crossing bonds; Mayor Howard W. Jackson, Pres. Board.

Md., Baltimore — Mortgage and Capital Stock.—Maryland & Pennsylvania R. R. Co., E. E. McLellan, Engr., M. W., plans issuing \$450,000, first consolidated mortgage 6% bonds, and \$450,000 in common capital stock.

Miss., Magnolia—School — Pike county, Board of Supervisors will call election May 17 to vote on \$60,000 loan warrants.

Miss., Starkville—Road—Otibbeha County, Road Dist. No. 1. will vote soon on \$25,000 bonds. Address County Commrs.

Miss., Woodville—Road—Wilkinson County, 3rd Supvrs.' Dist., voted \$75,000, 6% bonds. Address County Commrs.

Mo., Chaffee—Water and Sewer Extension—City votes this week on \$49,000 bonds; C. E. Stiver, Engr. Noted April 17 to vote April 23 on bonds.

Mo., Jefferson City—School—City votes May 13 on \$400,000 bonds. Address Pres. School Board.

Mo., Parkville—School—City will vote soon on bonds. Address The Mayor.

Mo., New Bloomfield—School—City sold \$15,000 New Bloomfield Consolidated School Dist, bonds to Fidelity National Bank and Trust Co., Kansas City. (Noted April 17 voted bonds.

Mo., Poplar Bluff-City will vote soon on \$20,000 bonds. Address The Mayor.

Mo., Steele—Water Works—City will vote soon on \$60,000 bonds. Address The Mayor. Mo., Steele—School—City sold \$30,000 School Dist. No. 32 bonds to Kauffman-Smith Co., St. Louis.

N. C., Asheville—School—City contemplates \$450,000 bond issue; John H. Cathey, Mayor,

N. C., Bryson City—Hydro-Electric Plant— Board of Aldermen, J. E. Coburn, Chmn., sold \$100,000, 5½%, \$1000 denom. bonds to Hanchett Bond Co., Chicago, Ill.

N. C., Columbus—Courthouse Improvement—Polk County, W. C. Hague, Clk., receives bids May 5 for \$10,000 6% bonds.

N. C., Columbus—Water—Town, E. B. Cloud, Clk., receives bids May 5 for \$16,000, 6% bonds.

N. C., Dunn-Water and Sewer-Town, H. A. Parker, Clk., sold \$275,000 6% bonds to Caldwell & Co., Nashville, Tenn., at par. Noted April 10.

N. C. Durham—Street Improvement—City, C. B. Alston, Clk. contemplates \$100,000 bond issue.

- N. C., Edenton—Road—Chowan County Commrs., M. L. Bunch, Clk. of Board, receives bids May 5 for \$100,000, 6% bonds.
- N. C., Farmer—School—Randolph County Commrs., Ashboro, receives bids until May 5 for \$29,000 Farmer Special School Taxing Dist. bonds; Lee M. Kearns, Register of Deeds.
- N. C., Forest City—School—Cool Spring Township votes May 24 on \$150,000 bonds. Address Rutherford County Commrs., Rutherfordton.
- N. C., Jackson—County Home—Northampton County, Board of Commrs., receives bids June 2 for \$45,000, 5% bonds; S. J. Calvert, CN.
- N. C., Lucama—Electric Light—City, S. E. High, Clk., receives bids May 7 for \$15,000 bpnds. Noted March 27.
- N. C., Murphy—Road—Cherokee County Commrs., receives bids until May 5 for \$20,-000, 6% bonds; A. M. Simonds, Clk.
- N. C., Newton-Water-Town, Claience Clapp, Clk., receives bids May 6 for \$30,000, 6%, \$1000 denom. bonds.
- N. C., Stedman—School—Cumberland County Board of Commrs., Fayetteville, receives bids until May 5 for \$45,000, 6% Stedman Consolidated High School Dist. bonds; E. A. Poe, Chmn.
- Okla., Chandler Road Lincoln County contemplates voting on \$1,500,000 bonds. Address County Commrs.
- Okla., Frederick-Electric-City will vote soon on \$75,000 bonds. Address the Mayor.
- Okla., Guthrie—School—City sold \$70,000. 5%, \$1000 denom. bonds to American National Co., Oklahoma City.
- Okla., Okmulgee—Road—Okmulgee County votes May 19 on \$400,000 bonds. Address County Commrs.
- Okla., Pawhuska—School—County Commrs. sold \$60,000, 6%, \$1000 denom. Osage County School Dist No. 11 bonds to American National Co., Oklahoma City.
- Okla., Stillwater—Water—City, Chris. Holzer, Mayor, receives bids probably May 20 for \$200,000, 5 per cent bonds; G. E. Matkin, Commr. of Finance. Noted April 24, voted
- S. C., Bennettsville—Highway—Marlboro County Highway Comn., J. F. Kinney, Clk., sold \$350,000 5% bonds to J. H. Hillsman & Co., Atlanta, Ga., at \$350,385, and accrued interest. (Noted Apri 17.)
- S. C., Bishopville—Road Improvement—Lee County sold \$125,000 514% bonds to Detroit Trust Co. at premium of \$920.
- S. C., Charleston—Road and Bridge—Charleston County Sanitary and Drainage Comn. plans selling \$1,100,000 bonds.
- S. C., Spartanburg—School—Board of School Trustees, E. S. Tennant, Chmn., contemplates \$250,000 bond issue.
- Tenn., Bristol—Water and Sewer—City, L. H. Gammon, Mayor, votes May 24 on \$35,000 water and \$25,000 sewer bonds.
- Tenn., Grand Saline—Water—City, V. B. Crosby, Mayor, votes May 6 on \$50,000 bonds.
- Tenn., Kingsport—Improvements—City, F. L. Cloud, Mgr., receives bids May 15 for \$119,700 6% \$1000 denom. improvement bonds: \$20,000, public improvement; \$67,000, city improvement; \$24,000, Dist. No. 18 improvement; \$6700, Dist. No. 23 improvement.
- Tenn., Morristown—Water Works and Electric Plant Improvements—City votes May 15 on \$306,000 5½% bonds. Address The Mayor.
- Tenn., Trenton—Highway—Gibson County, R. K. Taylor, County Judge, receives bids May 3 for \$500,000, 5% bonds.
 - Tex., Abilene School-City, Chas. E.

- Combe, Mayor, contemplates calling election soon to vote on \$100,000 bonds.
- Tex., Batesville—Road—Zavalla County, votes May 17 on \$125,000 bonds; N. P. Hunt, County Judge.
- Tex., Colorado—Road—Mitchell County receives bids until May 27 for \$325,000 bonds.

 Address County Commrs. (Noted April 10, defeated bonds.)
- Tex., Dodsonville—School—City voted \$16,000 bonds. Address Pres. School Board.
- Tex., El Paso—Municipal Improvements—City, Mayor Dudley, will vote May 7 on \$1,033,000 bonds. (Lately noted.)
- Tex., Mineral Wells—School—City votes May 8 on \$250,000 bonds. Address J. F. Wright, Sec. Board of Trustees, Mineral Wells Independent School Dist.
- Tex., Palestine—School—Board of Trustees proposed \$110,000 bond issue. Address J. D. Pickett, Pres.
- Téx., Houston—Water Works, Street Paving—City, Cottage Grove Dist., voted \$20,000 bonds, including \$12,000 for water system and \$7000 for street paving. Address The Mayor.
- Tex., Lubbock—Paving—City sold \$375,000 $5\frac{1}{2}$ % bonds to W. A. Myrick, Sr., Lubbock, at par and accrued interest.
- Tex., Marlin—School—Falls County, Sandy Ridge Dist., voted \$10,000 bonds. Address Falls County Board of Education.
- Tex., Memphis—Road—Hall County sold $$200,000, 5\frac{1}{2}\%$ Road Dist. No. 3 bonds to Brown-Crummer Co., Wichita, Kansas.
- Tex., Winters—Sewer—City voted \$50,000 bonds. Address The Mayor.
- Va.. Portsmouth—Water—City, J. P. Jervey, Mgr., voter in June on \$250,000 bonds.
- W. Va., Clarksburg—Road—Harrison County, Sardis Dist., contemplates voting May 27 on \$380,000 bonds. Address County Commrs.
- W. Va., Huntington—Sewer, Bridge—City, Mayor Chapman, contemplates voting on \$1,000,000 bonds.
- W. Va., Logan—Street Paving—City voted \$12,000 bonds. Address The Mayor.
- W. Va., Mannington—School—Board of Education, A. L. Thomas, Sec., will call election May 15 to vote on \$200,000 bonds. (Noted March 13, defeated bonds.)
- W. Va., Piedmont—Filtration Plant, etc.— City voted \$30,000 bonds. Address The
- W. Va., Princeton—Street Improvement—City votes June 10, on \$100,000 bonds. Address The Mayor. Lately noted.
- W. Va., Salem—Water—City voted \$75,000 bonds. Address The Mayor.

Financial Notes

- "An Appreciation of the South" is the title of a small pamphlet written by W. E. Wahlman of Stevenson, Perry, Stacy & Co., bankers, Chicago, concerning Southern municipal bonds, their yield to the investor, their merits and their intrinsic value based on the rapid and substantial development of the South. Numerous statistics are quoted and the author acknowledges his indebtedness to the Manufactureers Record for a considerable part of this information that he presents to the reader.
- Atlanta Commercial Bank, W. B. Chandler, Pres., Atlanta, Ga., increased capital from \$50,000 to \$100,000.
- Carter Investment Co., Houston, Tex., increased capital from \$100,000 to \$500,000.
 - Eureka Life Insurance Co., 10 E. Fayette

- St., Baltimore, Md., purchased Maryland Assurance Corp., 40th and Cedar Ave.; J. C. Maginnis, Pres.; Chas. O. Hall, Sec.
- Farmers & Merchants Bank, Henderson, Tenn., increased capital from \$50,000 to \$60,-000.
- First National Bank and Bank of Commerce, Perry, Okla., consolidated.
- Fort Worth Life Insurance Co., Fort Worth, Tex., and Southern Union Life Insurance Co., Waco, consolidated, with combined capital of \$250,000; J. L. Mustrot,
- Maynardville State Bank, Maynardville, Tenn., plans increasing capital from \$15,000 to \$30,000.
- Mortgage & Realty Co., Inc., Baton Rouge, La., plans increasing capital from \$150,000 to \$300,000; Aaron Bernard Murray, Sec.
- St. Charles Building & Loan Assn., St. Charles, Mo., plans increasing capital from \$800,000 to \$1,000,000.
- Young Men's Building & Loan Assn., Mayfield, Ky., increases capital from \$2,500,000 to \$3,500,000.
- Union & Planters Bank & Trust Co. and Guaranty Bank & Trust Co., Memphis, Tenn., merged as Union and Planters Bank & Trust Co., with Frank Hayden, Pres.

Trade Literature

Booklet of Cold-Sawing Equipment.

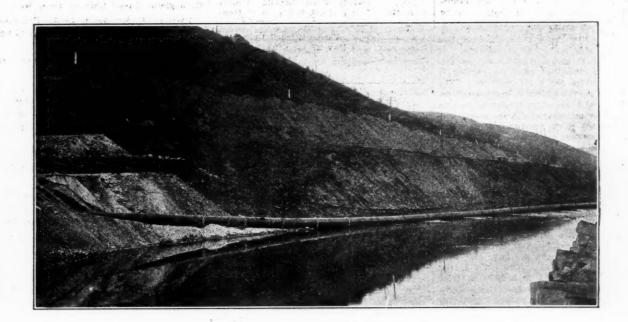
"Economy in Cold Sawing" is a booklet issued by the Earle Gear and Machine Co., Philadelphia, Pa., which gives a full description, with illustrations, of the Lea Simplex cold cutting-off saws, which are designed, manufactured and sold by the company, which on request will send a copy of the booklet to anyone interested in cold-sawing equipment.

A Fine Company Periodical.

The Hercules Mixer is a monthly magazine published in the interest of all members of the Hercules Power Company of Wilmington, Del. Each number abounds in material of human interest in addition to containing articles about the work of the company and its advancement. Pictures are used freely and contribute greatly to the general excellence of the periodical, which is entertainingly written and generally made up so as to be attractive. The illustrations of different employes and officers all represent faces expressive of energy and contentment.

Bulletins of Value to Contractors.

- Several new bulletins published by the Austin Machinery Corporation, Toledo, Ohio, relate respectively to their Model No 24 all-multipedal backfiller, Model No 00-30 trench machine, and Model No 0-42 trench machine. All of them are illustrated with comprehensive descriptive material. Especially interesting are the broadside pictures of the machines with guide lines to and descriptions for each feature that they contain. Full specifications are given in each instance and the cover-page pictures show the machines engaged on different jobs.
 - (Continued on page 162)



BELL and Spigot Cast Iron Pipe is easily laid under exacting conditions. For instance, unusual difficulties were encountered while installing the 30-in. water supply for the New York and Pennsylvania Paper Company of Johnsonburg, Pa. In the above picture is shown a section of the line crossing a near-by creek.

This line was laid without a single workman standing in the water. Several lengths of pipe were suspended above the water level during caulking and as completed each section was allowed to sag into place on the bottom of the creek. The remarkable flexibility of Bell and Spigot Cast Iron Pipe made this simple method of installation possible.

Write us today and our Engineers will be glad to tell you how Cast Iron Pipe will simplify your problems.

United States Cast Iron Pipe and Foundry Co.

GENERAL OFFICE: BURLINGTON, NEW JERSEY

SALES OFFICES:

Philadelphia—1421 Chestnut St. New York—71 Broadway Pittsburgh—Henry W. Oliver Bldg. Dallas, Texas—Magnolia Bldg. Chicago—122 South Michigan Boulevard Cleveland, Ohio—1150 H. 26th St. N. E. Birmingham, Ala.—1002 American Trust Bldg. San Francisco—Monadnock Bldg. Minneapolis—Plymouth Bldg. Buffalo—957 E. Ferry St. Kansas City—Interstate Bldg. Fine Book About Cotton Mill Machines.

The second edition of "Cotton Mill Machinery," 1924, issued by the Saco-Lowell Shops, 1 Federal Street, Boston, Mass., is a finely prepared, printed and bound volume of more than 800 pages, all of which is devoted to describing and illustrating the textile machines and cotton mill equipment manufactured at these shops. In this new edition the subjectmatter is arranged so that the catalog is more convenient for quick reference. first section contains pictures and general descriptions which are of particular interest to purchasers of machinery, and the second section is devoted to the presentation of technical data, specifications, plans, formulae, tables, etc., of value to engineers and actual operators of textile machinery and equipment. Some of the detailed drawings, gear lists, etc., previously shown in the picker section have been omitted because this information is now included in the company's new picker parts catalog. Many changes in design and construction are covered in this new book and particular attention is directed to the No. 5 Model picker that is an entirely new pattern. Many radical changes have also been adopted in the spinning frames made by the company. In the book is included a brief description of the various processes used in cotton spinning and of the uses and operation of the machines.

Of Interest to Public Service Men.

"The Reasonableness and Equity of Service and Minimum Charges," by Morris Knowles and Nathan B. Jacobs, which was an address delivered at the 28th annual meeting of the Pennsylvania Water Works Association at Atlantic City, N. J., on October 25, 1923, has been published in pamphlet form, in which shape it will be appreciated by everyone interested in public service companies and their operations. This deals particularly with water companies and it goes into details with a thoroughness that is highly satisfactory.

Book Review

Stock Exchange Law. By Samuel P. Goldman. New York. The Ronald Press Company. Pp. 497. \$5.

The author of this volume is a member of the New York bar and he deals with his subject with special reference to the New York Stock Exchange and also to the law of that state. His language is simple and direct, substantiating the assertion of the publishers that any individual of ordinary experience can by the use of this concise and practical book determine for himself his legal rights and his obligations in security transactions.

excepting as to points involved in a few difficult and yet unsettled questions. Moreover, lawyers will find the work valuable for ready reference; it is compact, with a table of cases and a full index. All aspects of the law relating to stock market dealings are covered, with particular attention to many recent developments and all important cases in New York and elsewhere are cited and discussed.

The rules and regulations of the New York Stock Exchange as lately modified are reproduced and explained. Especial consideration is given to the stock broker's relation to his customer and the statutes and the court decisions bearing on this are so co-ordinated and discussed as to explain the law so fully that none can easily mistake it as in its actual enforcement.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

American Firm Establishes Japan Branch.

The H. K. Ferguson Company, engineers and contractors, Cleveland and New York, has established at Tokio, Japan, a permanent office for sales, designing and construction, according to announcement by President Harold K. Ferguson. This will provide facilities for complete sales, engineering, designing and construction forces on industrial buildings, and the branch will direct the Ferguson work throughout the Orient. John Parrish Cleveland has charge of the office, with W. M. Thomson in charge of the designing division, C. J. Crosby at the head of the construction department, and W. S. Smead heading the equipment division. In addition to these there are a number of special department heads of the Ferguson company on duty, including J. S. Ruble, vice president, and R. E. J. Summers, chief engineer. The firm now has under construction a large electrical machinery plant near Yokohama for a Japanese firm, and it is also checking over designs for reconstruction of the Japan factories of the Western Electric Co., which were partly destroyed in the earthquake last fall.

Enlarged Capacity to Make Transformers Several new buildings and additions to the Sharon (Pennsylvania) plant of the Westinghouse Electric & Manufacturing Company, headquarters of which are at East Pittsburgh, are now under construction. They will be fireproof and of reinforced concrete and steel and they will afford an additional floor space of about six acres. They will be devoted chiefly to the manufacture of transformers with a capacity greater than 500 kv-a. The present works at Sharon cover about seven acres and they are devoted to making transformers of 500 kv-a capacity or less. The new addition will permit the company to ful-

fil its plans to make transformers of all sizes. The steel frame work is being erected by the American Bridge Company, but Stone & Webster, Inc., have charge of the construction under the general supervision of Bernard H. Prack, architect and engineer.

John H. Lord.

John H. Lord, representing Joseph T. Ryerson & Son, Inc., of Chicago, at Louisville, Ky., died there on March 30 in the 54th year of his age. He had been associated with the Ryerson organization for eighteen years and was widely known in the iron, steel and machinery trade, his genial disposition making him numerous friends in all parts of the country.

A New Type of Stair Tread.

The engineers for the Mitchell-Tappen Company, manufacturing contractors, John St., New York, recently developed something new in the line of stair treads which was so practical says an officer of the company, that when the engineer of a large oil refinery at Bayonne, N. J., saw the first sample tread, he put through an order for 1100 of them and they are now being installed. This device avoids danger on stairways when open grating treads are used. Mr. Tappen, it is stated, devised carrying the nosing, or fascia bar, down to double its depth and bending the lower half back longitudinally at an angle of 45 degrees. The effect of this change is to give the appearance of a solid line sharply defining the outer edge of each tread, thus lessening the chance for a misstep.

Vastness of the Congo River Hydro-Electric Potentialities.

Home Address,

Southern Methodist University, Dallas, Tex.

Editor Manufacturers Record:

The Congo river and its tributaries contain about 16,000 miles of navigable water. It drains a vast basin lying for the most part within the tropics. There is a heavy rainfall during the larger part of the year hence a large volume of water passes down this stream to the ocean. Five or six hundred miles above its mouth the Congo widens out until it resembles an inland sea, filled with wooded islands. At one place it reaches a width of thirty or forty miles. Then passing out of this swampy lake region the stream traverses some low hills and narrows in places to a width of five or six hundred yards, but is very deep. Three hundred miles from the coast a large pool is formed two or three miles wide, mostly surrounded by hills of considerable height. The pool is named for the great explorer Stanley.

At the west end of this pool the river breaks through the hills on its way to the Atlantic. It is probably a half mile wide at this point. There is evidently a marked drop in the altitude for the water rushes between the hills, a mighty raging torrent. The rapids are wonderful to look upon and the roar from them can be heard at night plainly six miles above. As the water beats and surges onward it encounters many large rocks, and large waves or bodies of the water are seen to leap ten or fifteen feet into the air bounding and rebounding in a terrific manner. No river steamer can withstand such power. Several have ventured too near only to be swept over the rapids to complete destruction. An expert engineer on seeing them calculated that there was sufficient power in these rapids if properly harnessed, to light the entire west coast of Africa north of the mouth of the Congo and a third of the continent of Europe besides. They present a big challenge to the modern age.

ANSIL LYNN,

Missionary of the Methodist Episcopal Church South, to the Belgian Congo, Africa.

Taxes vs. Dividends

RAILROADS throughout the country are doing everything possible to maintain and add to the prosperity of the nation. Orders for needed new equipment, material and supplies totaling many millions of dollars are being placed now. The railroads are preparing to further improve their facilities so that they may continue to function with the same adequate efficiency that was so marked

last year.

Generally speaking, the shipping and traveling public is in sympathy with the efforts of the railroads. The public appreciates the importance—the absolute necessity-of dependable and adequate railroad transportation. The public also appreciates the large contributions railroads are making to existing prosperity, for railroad orders are keeping hundreds of thousands of men employed at profitable wages and in that way a large portion of our population is provided with potential purchasing power.

One of the few discordant notes now being sounded is an insistent demand for These demands are coming for the most part from profeslower freight rates. sional agitators. If the price of some farm product is too low they cry "lower the freight rates." If the price of some manufactured article is too high they again cry "lower the freight rates." They do not take into account what will happen if railroads are deprived of a LIVING WAGE.

In spite of the fact that the railroads of this country handled the greatest volume of traffic in history last year the amount of dividends paid to owners of railroad securities amounted to considerably less than the amount of taxes paid by the railroads to local, state and national governments. Taking 1913 as a normal prewar year the records show that dividends amounting to \$332,300,406 were paid as compared with taxes amounting to \$127,725,809. Using these figures as a basis the records show that in 1922 dividends had dwindled to \$271,576,000 or 82 per cent of what they were in 1913, while taxes had increased in 1923 to \$336,399,600 or 263 per cent of the 1913 figure.

These dwindling dividends and ever-mounting taxes constitute an unanswerable argument. Not only taxes, but also the prices of every item that enters into the cost of producing railroad transportation service have increased out of all proportion to the relatively slight increases that have been made in the rate levels.

Reduction of the tax burden is vastly more important than any other problem confronting our law makers. They should not attempt to strangle and starve the railroads but should provide some relief in the form of lower taxes. Lowering freight rates would seriously hamper and cripple the railroads. Lowering taxes would help not only the railroads but all classes of citizens.

The following figures will give some idea of the situation with which railroads are confronted:

Ratio	Dividends Paid	Year	Taxes Paid	Ratio
100%	\$332,300,406	1913	\$127,725,809	100%
113%	376,089,785	1914	141,942,711	111%
78%	259,809,520	1915	139,313,602	109%
92%	306, 176, 937	1916	162,474,735	127%
97%	322,395,779	1917	215,146,471	168%
77%	275,336,547	1918	223 595,268	175%
84%	278,516,908	1919	232,363,445	182%
82% 90%	271,731,669	1920	282,750,533	221%
90%	298,511,328	1921	275,138,134	215%
82%	271,576,000	1922	301 003,227	236%
		, 1923	336,399,600	263%
		4 1767	330,333,000	201/0

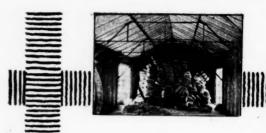
The railroads are providing adequate and dependable transportation. They are preparing to meet all the requirements that will be made of them. It is the duty of every citizen to exert his influence to the end that the railroads be given fair treatment.

I solicit your co-operation and suggestions.



President MISSOURI PACIFIC RAILROAD COMPANY

General Offices: MISSOURI PACIFIC RAILROAD COMPANY RAILWAY EXCHANGE BUILDING, ST. LOUIS, MISSOURI







Buy Buildings As You Buy Plant and spread your low cost over a convenient period

You buy a mixer to use on more than one job.

Why not buy buildings on the same basis?—for use on many jobs? Your cement sheds, tool houses, mess halls or bunk houses can be made with Blaw-Knox Better Buildings with a saving to you. Your first cost is low, due to quantity production.

Erection is speedy with standard units. And when the job is completed these standard structures are dismantled and re-erected with equal speed and ease.

Your Blaw-Knox Better Buildings will last for many years, even with repeated handling.

The copper-bearing steel is protected from rust by a heavy jacket of zinc. Not even a bolt hole in the galvanized surface is exposed to the weather. Thus, long service is assured at minimum cost. Standard steel sash may be used at will.

Leak-proof skylights may be built into the roof sheets where windows are not wanted. This, too, is an exclusive Blaw-Knox feature.

Hundreds of users prove the practical economy of Blaw-Knox Better Buildings.

You, too, can save in first and final cost.

Pay As You Earn

Only a small cash outlay is needed to secure your Blaw-Knox Better Buildings. You put them to immediate use and pay for them as they earn for you.

Only Blaw-Knox offers this financial con-

venience. It is doubly valuable because of the many exclusive features of Blaw-Knox Better Buildings.

This service is extended on small or large buildings—on one or a hundred.

Get These Booklets

The practical advantages and exclusive features of Blaw-Knox Better Buildings are illustrated in "The General Manager Solves the Building Problem."

Details of "pay as you earn" are clearly

outlined in "The Blaw-Knox Building Finance Plan." Many who have read these books have gained an entirely new conception of buildings. They're yours for the asking—and worth it.

BLAW-KNOX COMPANY

624 Farmers Bank Building

New York...30 East 42nd St. Detroit.....Lincoln Bldg. Chicago.....Peoples Gas Bldg.



PITTSBURGH, PA.

Birmingham1511 Amer. Trust Bldg. Baltimore...Bayard & Warner Sts. Buffalo.....622 Genesee Bldg.

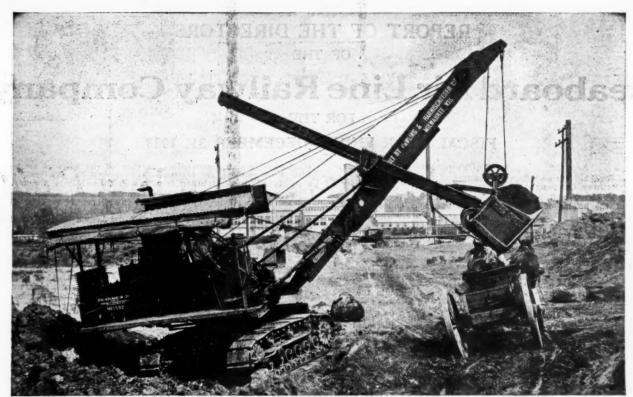
BLAW-KNOXBetter BUILDINGS











P&H 206 (3/4-yd.) Gasoline Shovel owned by the Ottawa Silica Co. of Ottawa, Ill.

Good, Steady, Every-day Production

⊕CORDUROY⊕

Like a well-built lathe or boring mill—like a rugged crusher—the P&H Gasoline or Electric Shovel is designed for dependable, day after day, full-time production.

The P&H is ready to start at a moment's notice and can be stopped as read-

ily. No power or fuel is consumed unnecessarily. There are no fires to attend to—no delays of any kind.

The Pawling & Harnischfeger

Co. pioneered in the development of this type of shovel—a development which has reduced the cost of excavating, and permitted speeding up the work to offset increased labor costs. And as a result of this pioneering work, you will find exclusive features of great importance on the P&H.

Follow the Corduroy Trail—the Tread Mark of the P&H

manual tributes
on gas manufation.

Superior Construction

The shafts on the P&H are forged, turned

and ground to micrometer sizes—with specially heat-treated chrome manganese steel for the heavy-duty shafts. The gears are cut from blanks, and there are a minimum number of gear reductions. Maximum

power is provided at the digging end. All the control levers are banked to give the operator complete view of the dipper, making handling easy with minimum

manual effort. The weight is properly distributed and the construction balanced.

Bulletin 80-X, the most complete book on gasoline shovels ever issued by any manufacturer, will be mailed on request.

Excavating Machinery Division

Pawling & Harnischfeger Co. Established in 1884

3827 National Avenue, Milwaukee, Wis.

New York Phoenix San Francisco Birmingham

Chicago Salt Lake City Portland Memphis Kansas Pittsburgh Denver Seattle Dallas Philadelphia Los Angeles St. Louis Atlanta



GASOLINE SHOVEL

REPORT OF THE DIRECTORS

OF THE

Seaboard Air Line Railway Company

FISCAL YEAR ENDED DECEMBER 31, 1923

Baltimore, Md., April 10, 1924.

To the Stockholders and Security Owners of the Seaboard Air Line Railway Company:

The President and Board of Directors submit the following report of the affairs of the Company for the year ended December 31, 1923:

GENERAL REMARKS.

GENERAL REMARKS.

The freight car rebuilding program, put into effect by this Company during 1922, marked a new era in overcoming the delinquencies of Federal control during which Seaboard equipment suffered severely and as a result of which the railroad, upon return to its owners, faced a serious problem owing to the bad order equipment conditions. Equipment rehabilitation under the Company's policy, together with the purchase of certain new equipment, increased operating efficiency and enabled the Company to handle the large volume of freight business during the year which otherwise could not have been secured. The policy adopted placed the Company in position to handle additional traffic, both freight and passenger, and not only were the Company's gross earnings largely increased over the preceding year, but equipment per diem paid for foreign cars decreased \$1,347,426.35, although the equipment program had not been completed at the close of 1923.

Gross revenues increased \$6.570.062.17 over 1922. Freight revenue increased \$4,576.331.65, although a ten per cent (10%) rate reduction became effective during the previous year. Passenger train revenue increased \$1.808.275.03, and other revenue from operations increased \$185.455.49. The number of revenue tons carried during 1923 was 14.995.016, an increase over the previous year of 2.615.920 tons, or 21 per cent. The number of tons of revenue freight carried one mile increased \$4.10.275.28 of which \$2.136.

Operating expenses increased \$4.119.375.28, of which \$2,136.334.52 was in maintenance, Gross revenues increased \$6,570.062.17, while transportation expenses increased only \$1,650.341.89. The transportation ratio was 38.89 as against 40.86 for the previous year. The number of revenue tons per train increased 4 per cent over the previous year. Train miles increased 10 per cent and locomotive miles increased 11 per cent and, as previously stated, equipment rents decreased \$1,347,426.35.

equipment rents decreased \$1,347,426.35.

The negotiations for the settlement of the Company's claim against the United States Railroad Administration, growing out of Federal control, terminated during 1923. These negotiations had been carried on since 1920. Your management believed that the terms named by the Director General of Railroads at the beginning of these negotiations in 1920 were totally inadequate and not commensurate with the value of the property to the Government under the rental value the Director General then proposed, and would not compensate the Company for the damage done to its freight car equipment during Federal control. The freight car equipment of this Company was turned over to the Railroad Administration in 6.7% bad order and returned in appreximately 40% bad order. Your management believed it was essential that sufficient time be given to prove the claims made in this respect and declined to pressmatters to a conclusion until sufficient time had been given to permit the freight cars in the ordinary course of business to be returned from other lines in order that their condition could be ascertained.

tained.

The rental or standard return for the Company's property was finally fixed at \$7.800.000 per annum for the period of Federal control, compared with the figure \$6.504.428.76 originally certified for the standard rental. As a result of the fixing of this amount as standard rental, the Company received \$650,188.43 in final settlement with the Interstate Commerce Commission on account of the six months' guaranty period, and in reimbursement, under Section 209 of the Transportation Act, of the deficit from operations during that period. The balance of the amount for the guaranty period had been previously paid. The settlement of the guaranty period resulted in a charge to Profit and Loss due to abnormal maintenance which was necessary during the period immediately following Federal control. Federal control.

Federal control.

In the final settlement with the Director General of Railroads \$750,000 was received in addition to the amount received from the Commission, the balance between the increased amount finally agreed upon as standard rental and the rental first certified, which had been paid by previous advances. Expenditures made by the Director General for additions and betterments to the Company's property during Federal control were funded in the amount of \$2,000,000, increasing the cash received by the Company in final settlement with the Government to \$3,400,188.43.

In this settlement all Federal control accounts against the Sea-

settlement with the Government to \$3,400,188.43.

In this settlement all Federal control accounts against the Seaboard were discharged, including items of the book accounts between the Director General and the Company, which, on the basis of the so-called standard return indicated an apparent balance against the Seaboard amounting to approximately \$8,000,000, without computing interest or the Director General's claim for over-expenditures with respect to maintenance on the flat accounting basis, which the Company declined to accept.

While the settlement did not produce the amount which as a result of litigation in the judgment of your management, would be recoverable, in view of the fact that your Company declined to accept the standard form of contract for the taking of the property under Federal control, a suit in the Court of Claims would have been requisite to establish full recovery. For this reason, in view of the substantial concessions by the Director General, regarded as

reasonable from his standpoint, in view of the basis of settlement with other carriers, the settlement was agreed to. The result was a substantial credit to the Company's Profit and Loss Account.

On December 20, 1923, the Board of Directors declared and ordered paid on February 1, 1924, an installment of interest on the \$25.000.000 Adjustment Mortgage Bonds, amounting to two and one-half per cent (2½%), represented by August 1, 1921 coupons, numbers 45 and 46 for \$12.50 each.

The outlook for business throughout the territory traversed by this railroad is excellent. The favorable prices for cotton, tobacco and other products of the Southern country give an increased purchasing power throughout this territory. Indications are that the movement of fertilizer during 1924 will be very heavy. The production of citrus fruits and vegetables in Florida and products from the other states of the South is increasing from year to year with unprecedented rapidity, indicating heavy increases in this class of traffic for 1924.

class of traffic for 1924.

The passenger business of the Seaboard has already shown large increases and promises for the coming year to be heavily augmented. Florida and the whole Southern country are now looked to as perhaps the most important pleasure-seeking territory of the country. People from various sections of this country and from other countries are beginning to realize that the South offers the greatest inducements not only for relaxation and rest, because of climatic and other conditions and the excellence of the hotel accommodations, but also as a place of residence, many investing in property and making the South either a permanent or part-time residence.

Traffic density in Seaboard territory has greatly increased. Mile-

and making the South either a permanent or part-time residence.

Traffic density in Seaboard territory has greatly increased. Mileage, at one time unproductive, is now productive.

Too great a concentration of railroads into a very few large consolidated systems, such as has been proposed, will not secure the best results to the South. Many millions of acres of agricultural lands; great deposits of minerals, clays and material used in industrial commerce, await development. Adequate transportation facilities are essential to enable the South to work out its destiny. These facilities can only be obtained by an attitude toward the railroads that will enable them to sell their securities with reasonable assurance to the investor of their ability to meet their obligations.

The Transportation Act of 1920 should not be amended in essen-

The Transportation Act of 1920 should not be amended in esset tial particulars. Harmful legislation affecting the railroads would have much to do with depressing existing business conditions.

The Directors desire that an expression of appreciation be extended to the officers and employes for the loyal and efficient service which they have rendered in the development and satisfactory progress of the Company's business.

S. DAVIES WARFIELD,

President.

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To

SEABOARD AIR LINE RAILWAY COMPANY

INCOME ACCOUNT-FOR THE QUARTER ENDED MARCH 31, 1924,

INCOME NECOGNI TOR	THE GOTTOL	THE THE PARTY OF THE	TITCH OL, LOSS
COMPARED WITH	QUARTER E	NDED MARCH	31, 1923.
	Three Months ended	Three Months ended	
3	farch 31, 1924	March 31, 1923	Increase
Railway Operating Revenues	\$14,798,887.33	\$13,916,934.62	\$881,952.71
Railway Operating Expenses	11,142,823.59	10,892,710.37	250,113.22
Net Revenue from Railway Operations Railway Tax Accruals.	\$3.656,063.74 570,000.00		\$631,839.49 45,000.00
Uncollectible Railway Revenues	2,557.33	2,515.45	41.88
Railway Operating Income	\$3,083,506,41 324,436,56 24,075,00	\$2,496,708.80 831,132.80 21,150.00	\$586,797.61 506,696.24* 2,925.00
Net Railway Operating Income Other Income	\$2,734,994.85 165,567.04	\$1,644,426.00 124,399.37	\$1,090,568.85 41,167.67
Gross Income Rents and Other Charges	\$2,900,561.89 29,425.78	\$1,768,825.37 26,306.14	\$1,131,736.52 3,119.64
Applicable to Interest Interest Charges (exclusive of Interest on Ad-	\$2,871,136.11	\$1,742,519.23	\$1,128,616.88
justment Mortgage (Income) Bonds) Discount on Securities.	$\substack{1,645,286.10\\62,925.31}$	1,484,444.81 63,387.18	160,841.29 461.87*
Net Income before Ad- justment Mortgage (Income) Bond Inter-		* * **	
est	\$1.162,924.70	\$194,687.24	\$968,237.46
*Decrease.			.4

Baltimore, Md., April 25, 1924.

Table No. 1—SUMMARY OF INCOME YEAR ENDED DECEMBER 31, 1923, COMPARED WITH YEAR ENDED DECEMBER 31, 1922.	LIABILITIES.	1 2 4.
1923 1928 Increase Decrease	Capital Stock: Common Capital Stock Issued. \$40,041,000.00 [Pledged as Collateral 3,021,600.00] Less: In Treasury	227 A 10 100 A 1
Net Operating Revenue \$11,996,850.88 \$9,456,163.99 \$2,450,686.89 Taxes 2,204,054.28 2,124,235.32 79,818.96 Uncollectible Rail-	Preferred 4-2% Capital Stock Issued	\$37,019,100.00
Way Revenues	Preferred 6% Capital Stock Issued	23,894,100.00
Other Income: Joint Facility Rent Income \$131,420.94 \$113,459.24 \$17,961.70	Less: Pledged as Collateral. 2,235,000.00 11 Treasury 800.00	37,300.00
of Road	TOTAL FUNDED DEBT UNMATURED: Equipment Obligations 26,628,687.47	\$60,950,500.00
Rent Income 136,403.39 111,082.15 25,321.24 Miscellaneous Non- Operating Phys- ical Property 46,419.54 43,997.42 2,422.12	Less: Pledged as Collateral. 9,224,687.47 1n Treasury 66,000.00	17,338,000.00
Dividend Income. 67,455,67 49,498.67 18,047.00	Mortgage Bonds Proprietary Companies	33,659,000.00
Income from Un- funded Securi- ties and Ac-	S. A. L. Railway First Mort- gage Bonds	
counts 39,943.46 88,095.78 48,152.32 Miscellaneous Income 12,020.69 Dr. 1.835.52 13,856.21	S. A. L. Railway Refunding	12,775,000.00
TOTAL OTHER INCOME . \$648,177.54	Mortgage Bonds	19,350,000.00
Deductions from Gross Income: Hire of Equipment	S. A. L. Railway Company First and Consolidated Mort- gage Bonds, Series "A"	
—Debit Balance	Less:) In Treasury 133,000.00 Income Bonds:	27,777,500.00
Moads 39,008.34 38,803.09 203.43	S. A. L. Rallway Adjustment Mortgage Bonds Miscellaneous Obligations: Necessary Of Transports	25,000,000.00
Miscellaneous Rents	Secretary of Treasury of United States—Notes Director General of Railronds, United States—Note	14,557,400.00
Interest on Equip- ment Trust Ob-	TOTAL	152,456,900.00
Interest on Un- funded Debt 20,484.27 38,738.87	ated Companies	420,362.43 32,560.19
come Charges. 26.117.00 26.327.87 210.87 TOTAL DEDUCTIONS \$8.066.280.39 \$8.933.302.81 \$867.022.42 Net Income (exclu-	Traffic and Car Service Balances Payable Audited Accounts and Wages Payable:	961,476.79
sive of Interest on	Audited Vouchers Unpaid 4,084,833.37 Wages Unpaid 1,191,230.57	5,276,063.94
g a g e (Income) Bonds)	Miscellaneous Accounts Payable: Individuals and Companies. 104,789.95 Agents Traffic Drafts 126,805.02	
Net Income\$1,647,379.55 Dr. \$1,002,616,95 \$2,649,996.50	Claim Authorities 51,048.89 Interest Matured Unpaid: Funded Debt 668,793.75	282,643.86
ment of Discount on Securities 252,938.81 155.613.13 97,325.68	Equipment Trust Obligations 13,593.03 Dividends Matured Unpaid	682,386,78
Credit of Profit and Loss \$1,394,440.74 Dr. \$1,158,230.08 \$2,552,670.82	Funded Debt Matured Unpaid. Unmatured Interest Accrued: Funded Debt	
TABLE NO. 2—GENERAL BALANCE SHEET, DELEMBER 31, 1925. INVESTMENTS: Investment in Road and Equipment: Kood	Unfunded Debt	3,124,254.57 33,288.26 241,264.71
Equipment 37,590,539,17 General Expenditures 572,747.24 \$206,027,428.22 Sinking Funds 1,032.04	Total Deferred Liabilities:	9,763,448.10
Deposits in Lieu of Mortgaged Property Sold 1,024,205.67 Miscellaneous Physical Property 835,943.63	Other Deferred Liabilities UNADJUSTED CREDITS: Accrued Taxes	389,307.40 540,675.17
Investments in Affiliated Com-	Accrued Depreciation — Equip- ment	1,448,490.14 4,653,238.52
Stocks—Pledged 3,088,654.31 Stocks—Unpledged 299,639.22 Bonds—Pledged 916,158.45 Bonds—Unpledged 407,551.78	Reserve for Outstanding Stock of Proprietary Companies Other Unadjusted Credits	19,526,41 1,587,789.78
Advances	TOTAL	8,249,720.02
Stocks—Pledged 26.00	Additions to Property through Income and Surplus Funded Debt Retired through Income and Surplus Profit and Loss—Surplus	280,381.71 3,896.12
Notes 30,636.00 Advances 171,794.97 317,853.79 TOTAL 217,927,318.05	Profit and Loss—Surplus	7.398,970.20 7,683,248.03
CURRENT ASSETS: Cash with Treasurer\$3,879,877.41 Cash in Transit 1.041,914.24 4,921,791.65	GRAND TOTAL	\$239,913,485.98
Special Deposits — Cash with	•	
1,059,568.57	Accumulated and unpaid interest on Adjustment M to \$3,333,333.34 and payable out of future income of the bonds is not comprehended in the above balan	or otherwise, or at the maturity
Miscerianeous Accounts Receiv-	This Company is liable as a Guarantor of the fol Athens Terminal Company First Mortgage	
able: Individuals and Companies. 1,630,800.89 United States Government. 259,151.46 Other Companies for Claims. 131,894.55 2,021,846.90	Birmingham Terminal Company First Mortgage—S	eaboard proportion
Material and Supplies 5,988,110.42 Interest and Dividends Receiv-	Fruit Growers Express Company—Payments Jacksonville Terminal Company First Mortgage—S 1/3 of	400,000.00
Rents Receivable	Jacksonville Terminal Company First and General M proportion 1/4 of	ension Mortgage 100,000.00
TOTAL 14.871,257.76 DEFERERD ASSETS: Working Fund Advances 65,930.96 Other Deferred Assets 474,947.62	Seaboard proportion 1/4 of Macon, Dublin and Savannah Railroad Company Firs Raleigh and Charleston Railroad Company Prior Lie	at Mortgage 1,529,600.00
TOTAL	Mortgages Richmond-Washington Company Collateral Trust a proportion 1/6 of. Savannah and Statesboro Railway Company First Mor	fortgage—Seaboard
Advance 102,924.49 Discount on Funded Debt 4,587,539.93 Claims in Suspense. 386.775.59	Tampa and Gulf Coast Railroad Company First Mor	159,000.00
Other Unadjusted Debits 1.496,791.58 TOTAL 6,574,084.59	The Seaboard-Ray Line Company—Payments	300,000.00
GRAND TOTAL \$239,913,485,98	United States Wilmington Railway Bridge Company Consolidated A	217,000.00

The Mecklenburg Declaration of Independence.

An exceedingly interesting booklet of an historical nature has been issued by the Charlotte Chamber of Commerce, Charlette, N. C. It is written by Dr. Alexander Graham and is captioned "Prologue: Events Forming Background of Mecklenburg Declaration of Independence, May 20, 1775," Hatred of the then tyrannical British Government was the inspiration of this declaration which took place more than a year before the formal Declaration of Independence of the United States at Philadelphia, July 4, 1776. The Scotch-Irish people who settled in Mecklenburg County, of which Charlotte is the county seat, had brought with them from northern Ireland a deep seated dislike to the British king and his governmental followers because of their oppressive treatment of the inhabitants of the Province of Ulster and the declaration of Mecklenburg was an outburst to be expected when, after George III had flatly rejected two petitions sent to him from Charlotte, there came the news of the battle at Lexington. Instantly the Mecklenburg men voiced their protest, the history of which is narrated in full and in a very entertaining manner by Dr. Graham, who quotes liberally from several sources statements of fact concerning the first declaration of independence on the part of any of the American colonies.

Extension of Date for Bids on \$800,000 Tampa Office Building.

Tampa, Fla.—The date of opening bids for the new \$800,000 office building to be erected here by Val M. Antuono of this city, has been extended from April 28 to May 15. Contractors invited to estimate include: Adair & Senter of Atlanta and the Alanta offices of the Foundation Co., Turner Construction Co. and Dwight P. Robinson & Co., Inc; from Tampa offices of Stone & Webster,, Carmen Co. and Doullut & Williams Co., Inc., Miami office of George A. Fuller Construction Co.; Baltimore office of James Stewart & Co., Inc., A. Bently & Sons Co., Jacksonville; Selden-Breck Construction Co., Charlotte, N. C. and Norfolk office of E. W. Minter Co., Inc., Inc.

The building will occupy a site at Tampa and Lafayette streets, 75 by 83 feet and will be of steel with Indiana limestone finish. It will be 16 stories high, served by four elevators. There will be six stores on the ground floor and 270 offices above. Franklin O. Adams of Tampa, and Hentz, Reid & Adler of Atlanta, are the architects.

Union magisterial district of Barbour County, West Virginia, has voted a bond issue of \$325,000 for good roads.



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OSCAR T. SMITH

To Build \$250,000 Memorial Hall at Virginia Polytechnic Institute.

Concerning the erection of a memorial hall at the Virginia Polytechnic Institute. Blacksburg, Va., to cost from \$225,000 to \$250,000, Lawrence Priddy, New York, chairman of the World War Memorial Hall building committee of the Institute, advises the Manufacturers Record that plans are being prepared by Cram & Ferguson of Boston and Carneal & Johnston of Richmond.

The structure will probably be two or three stories high, erected of native stone taken from a quarry owned by the Institute and located less than a half-mile from the building site. It will contain modern gymnasium and swimming pool and will be heated by the central plant of the school. Ventilating and heating equipment will be arranged by Wiley & Wilson, engineers, Lynchburg.

Mr. Priddy states that it is hoped to have plans and specifications ready within sixty or ninety days, and to award building contracts as soon therafter as possible.

Building Power Plant at St. Petersburg.

Pinellas County Power Co.

St. Petersburg, Fla., April 19.

Editor Manufacturers Record:

The plant building of the Pinellas County Power Company, located at Third St. and Eleventh Ave., South on Bayboro Harbor, will be 85x122 feet, 55 feet high, for the first unit. The east wall will be temporary so as to allow for an addition of like size to be added later. The building will be of steel and brick, which includes installation of a thirty-ton Whiting crane. The first unit to be installed is a General Electric 6000 K. W. turbine, generating at 11,000 volts; the second unit being a G. E. 12,500-kilowatt turbine, gener-

ating at 11,000 volts, with Wheeler enclosed condensers and 100-horsepower Edgemoor boilers with 16-foot settings for oil burners, mechanical atomization oil burners being used.

The plant was designed by E. F. English, vice-president and chief engineer of the General Engineering and Management Corporation, New York city, and it is being built under their supervision. The building and machinery foundations are being erected by John Phillipoff, contractor, of St. Petersburg. These include a 15,000-barrel concrete fuel-oil storage tank underground.

The plant is also being designed, as to steel work, etc.. for the possible future use of coal. That is, the steel work in the boiler room is being so designed and installed that overhead bunkers can be used in the future, if necessary.

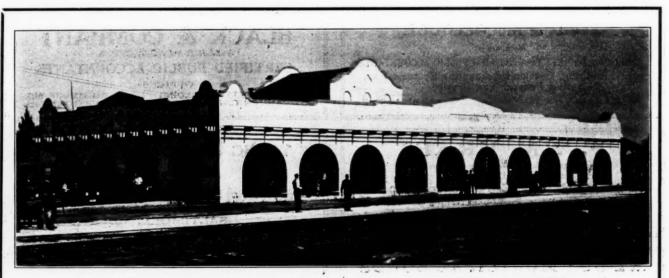
Boilers are to run at 300 pounds pressure, using 200 degrees super heat, expecting to obtain an efficiency under operating conditions of 300 kilowatt-hours to the barrel of 42 gallons.

B. M. LATHAM, General Manager.

Ten Miles in Marion County.

Fairmont, W. Va.—Sealed bids will be received here until May 14 by the Marion County Court for the construction of six road projects totaling 10.31 miles. Section 1 of project No. 1 embraces 1.18 miles; sections 1, 2 and 3 of project No. 2 cover 2, 2.5 and 2.5 miles, respectively; section 1 of project No. 4, one mile; section 1 of project No. 5, 1.13 miles, and section 1 of project No. 6 covers the same distance.

Sealed proposals addressed to the Commissioners' Court of Jack county will be received until May 23 at the office of John D. McComb, county judge, Jacksboro, Tex., for the construction of grade and drainage structures on 16.94 miles of the Mineral Wells road from the Palo Pinto county line to Jacksboro.



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Charleston County to Build 23 Miles.

Charleston, S. C.-When the sale of \$1,100,000 worth of the \$1,500,000 of bonds authorized by the General Assembly has been completed, about 23.5 miles of concrete roads will be constructed in Charleston county, according to plans being formulated by the County Sanitary and Drainage Commis-

A steel bridge will be constructed over Wappoo Cut to cost about \$60,000, while \$200,000 will be applied to the Ashley River bridge. Projects to be constructed with the remainder of the funds will include 71/2 miles of the Meeting Street road and the Blye House road, 15 miles from a point near Meggetts to the Edisto River and one mile from the intersection of the Meeting Street road and the Blye House road to the county line at Goose Creek bridge.

This construction will complete Charleston county sections of the South Atlantic Coastal and Mountain-to-the-Sea highways.

An Almanac and Handbook Combined.

Painter's Florida Almanac for 1924 has issued by the E. O. Painter Fertilizer Co., of Jacksonville, Fla. This is a complete and useful almanac besides being a valuable manual for truckers and farmers covering the use of fertilizers for different kinds of fruits and vegetables. The use of sprayers and spraying equipment is also described and illustrated. A page or two are devoted to the fertilizer distributers, etc. Then there is a chapter about citrus planting and culture and the diseases and insects that afflict citrus trees. Florida farm crops including corn, cotton, peanuts, hay, sweet potatoes, etc., are also discussed and truck crop diseases and insects are considered in a separate chapter. Formulas for various spray mixtures are given. Packing diagrams for fruit will be found very useful. At the back of the book is a road map of Florida showing the nature of the different main highways throughout the state. The front cover page of the almanac carries a picture of E. O. Painter, who founded the business of the company, of which H. Harold Hume is now head.



PROPOSAL

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close April 30, 1924.

U. S. Engineer Office, Jacksonville, Fla.—Sealed proposals for constructing one steel barge 80 ft. x 26 ft. x 6 ft, for the dredge BARNARD will be receive here until 12 M., April 30, 1924, and then opened. Further information on application.

Bids close May 15, 1924.

U. S. ENGINEER OFFICE, WILMING-TON, N. C. Sealed proposals will be received here until 12 o'clock noon, May 15, 1924, and then opened for furnishing and delivering one 20" dredging pump, etc., for dredge HENRY BACON. Further information on application.

Bids close May 28, 1924.

U. S. ENGINEER OFFICE, HUNTING-TON, W. VA.—Sealed proposals will be re-ceived here until 11 A..M. May 28, 1924, and then opened for constructing a Fire-proof Powerhouse at Dam No. 32, Ohio River. Further information on application,

Bids close May 22, 1924.

SEALED PROPOSALS will be received at the office of the General Treasurer, National Home for Disabled Volunteer Soldiers, until twelve o'clock M. (central standard time), May 22, 1924, and then opened, for furnishing and delivering supplies (clothing, chinaware, bedding, stationery, etc.) for the year ending June 30, 1925. Copies of instructions and specifications can be had upon application to C. W. Wadsworth, General Treasurer National Military Home, Dayton, Ohio.

Bids close May 23, 1924.

Bids close May 23, 1924.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 24, 1924.—SEALED PROPOSALS will be opened in this office at 3 P. M. May 23, 1924, for furnishing and installing a new oil-burning apparatus, storage tank, etc., at the U. S. Postoffice, Reno. Nevada, in accordance with specification and drawing, copies of which may be had at this office or at the office of the Supervising Superintendent, U. S. Public Buildings, Room 403, P. O. Building, San Francisco, Calif.. or at the office of the Custodian, Reno, Nevada, in the discretion of the Supervising Architect. Jas, A. Wetmore, Acting Supervising Architect. tect. Jas Architect.

RATE: 35 cents per line per insertion.
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The same rate applies—35 cents per line per insertion.

Bids close May 12, 1924.

Bids close May 12, 1924.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 18, 1924.—SEALED PROPOSALS will be opened in this office at 3 P. M., May 12, 1924, for furnishing and installing lighting fixtures in the National Home for Lepers at Carville, La., in accordance with the drawings and specification, copies of which may be had at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close May 14, 1924.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., April 16, 1924. SEALED PROPOSALS will be opened in this office at 3 P. M., May 14, 1924, for the construction of a one-story brick and tile non-fireproof Post Office building, approximately 61½ by 69 feet in size, at Woodbury, N. J. Drawings and specifications may be obtained from the Custodian of the site at Woodbury, N. J., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect. TREASURY DEPARTMENT, Office of the

Bids close May 19, 1924.

Bids close May 19, 1924.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D.C., April 21, 1924.—SEALED PROPOSALS will be opened in this office at 3 P. M. May 19, 1924, for the removal of the present boller and furnishing and installing one new horizontal, portable, smokeless, fire-box steelheating boller at the U.S. Postoffice, Nevada, Mo., in accordance with drawing and specifications, copies of which may be obtained from the Custodian. U.S. Postoffice, Nevada Mo., or from this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close May 26, 1924.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 25, 1924.—SEALED PROPOSALS will be opened in this office at 3 P. M. May 26, 1924, for furnishing and installing an oil-burning apparatus, etc., at the U. S. Postoffice and Courthouse, Tulsa, Okla., in accordance with specifications and drawing, copies of which may be had at this office, or at the office of the Custodian, Tulsa, Okla., in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close May 20, 1924.

Bids close May 20, 1924.

SEALED PROPOSALS, indorsed "Proposal for Hospital Construction, Aspinwall, Pa., will be received by the U. S. Veterans Bureau, Room No, 791, Arlington Building, Washington, D. C., until 11.00 A. M., May 20, 1924, and then and there publicly opened, for the construction complete of Infirmary, Ambulant Quarters, Recreation Building, Nurses Quarters, Attendants Quarters, Officers' Quarters, Garage, Storehouse, Boller House, Steel Water Tower and Tank. and Septic Tanks and House, also roads, drainage gutters and walks to be built at U. S. Veterans Hospital, Aspinwall, Allegheny County, Pa., as shown on drawings and, as described in the specifications. This work will include reinforced concrete construction, brick and hollow tile work, metal lathing, built-up roofing, slate roofing, slate and marble work; carpentry, ironwork, plastering, painting, glazing, hardware, heating, plumbing, and electrical installation, electric elevators, outside service connections and approach work. SEPARATE PROPOSALS will be received for Building Construction; Central heating, including heating equipment for all buildings; Water Supply, Plumbing, Sewers and Gas; Electrical Work; Elevators; Refrigerating Plant; and Smoke Stack, all as set forth on proposal sheet. Drawings and specifications may be obtained upon application to the Construction Division, Room No. 791, Arlington Building, Washington, D. C., in the discretion of the Director. Proposals will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to Insure speedy completion of the contract and who have established a record for expedition on contracts of similar character and magnitude. Deposit with application of a check or postal money order for \$100, payable to the Treasurer of the United States, is required as security for safe return of drawings and specifications within ten days after date of opening proposals. Frank T. Hines, Director, April 17, 1924.

Bids close May 15, 1924.

\$119,700 6% Bonds

Kingsport, Tenn.
Sealed bids will be received until eight o'clock P. M. May 15, 1924, for the following City of Kingsport, Tennessee, six per cent bonds:

\$20,000 PUBLIC IMPROVEMENT BONDS, dated April 1, 1924, maturing twenty years from date of issue. Denomina-tions of \$1000.

\$67,000 CITY IMPROVEMENT BONDS, dated March 1, 1924, maturing twenty years from date of issue. Denomina-tions of \$1000.

\$24,000 IMPROVEMENT DISTRICT BONDS (District No. 18), dated February 15, 1924, maturing \$2500 annually from 1925 to 1932, inclusive, and \$4000 in 1933. Denominations, 18 bonds of \$1000 each and 12 bonds of \$500 each.

\$8700 IMPROVEMENT DISTRICT BONDS (District No. 23), dated March 1, 1924, maturing \$1000 annually from 1925 to 1932, inclusive, and \$700 in 1933. De-nominations, 8 bonds of \$1000 each and 1 bond of \$700.

Interest on the issues of Public Improvement and City Improvement Bonds payable semi-annually; interest on Improvement District Bonds payable annually at the Hanover National Bank, New York City.

Opinion approving the legality of the bonds will be furnished by Hon. John C. Thomson, New York City, and all expenses in 'connection with the preparation and printing of the bonds will be borne by the City of Kingsport.

A certified check for \$1200, payable to G. D. Black, City Treasurer, must accompany each bid, and all bids must be marked "Sealed bids for bonds" and addressed to the undersigned.

The Board of Mayor and Aldermen re-serves the right to reject any and all bids.

F. L. CLOUD, City Manager.

Bids close May 27, 1924.

\$174,000 6% Bonds.

Daytona Beach, Fla.

The Town Council of Daytona Beach, Volusia County, Florida, will receive sealed proposals at the office of the Clerk of the Town of Daytona Beach, Florida, on or before 12 o'clock noon, Tuesday, the 27th day of May, A. D. 1924, for the purchase of all or any part of ONE HUNDRED AND SEVENTY-FOUR THOUSAND DOLLARS (\$174,000) six per cent thirty-year bonds, interest payable semi-annually. Bonds dated July 1, 1924. Opinion as to legality by Reed, Dougherty & Hoyt, New York City.

A certified check for one per cent (1%) of the amount of the bonds, made payable to the Town of Daytona Beach, must accompany each bid. All bids will be opened on May 27, 1924, at 8 o'clock P. M. at the Town Hall in Daytona Beach. All bids shall be filed with the Town Clerk. The Town Council reserves the right to reject any or all bids.

For further information address E. A.

all bids.
For further information address E. A.
Donovan, Daytona Beach, or F. W. Pope,
Daytona, Florida. E. A. DONOVAN, Town Clerk.

Bids close May 14, 1924. \$189,000 6% Bonds

Sealed bids will be received by the Treasurer at 32 Giddens Building, Tampa, Florida, until 10 A. M., May 14. 1924, for sale of \$189.000 in bonds of said district, bearing interest at 6%, payable semi-annually April and October. Certified check or cashier's check in the sum of \$2500 must accompany each bid as guarantee that successful bidder will take up and pay for bonds. No bid of less than 95 and accrued interest can be considered.

Drainage Construction

Bids will also be received by the Board of Supervisors from Drainage Contractors at same hour for construction of mains, laterals and other works set out in the Plan of Reclamation. Certified check or Cashier's check of \$2500 must accompany each bid as guarantee that successful bidder will enter into contract for such construction. Surety bond of \$50,000 will be required.

Joint bids for both bonds and construction work may be made. Such bids must be accompanied by certified check or Cashier's check of \$5000. No bidder's bond accepted either for bond bid or construction work.

work.

Copy of plans and specifications may be obtained from the Chief Engineer by payment of \$15 to cover cost of printing.

M. D. POOLER, Secretary.
W. J. McDONALD, Treasurer.

McELROY ENGINEERING COMPANY,

Chief Engineer, 32 Giddens Building, Tampa, Fla.

Bids close May 14, 1924.

Bridges and Culverts

Fayetteville, N. C.
Sealed proposals will be received by the Mayor and Board of Aldermen of the City of Fayetteville, N. C., until 7.30 P. M., May 14, 1924, for the furnishing of materials for and constructing reinforced concrete bridges and culverts enumerated as follows: One (1) Deck Girder Bridge over Cross Creek at Ann Street.

One (1) Deck Girder Bridge over Blounts Creek at Hawley Lane.

One (1) Deck Girder Bridge over Cross Creek at Cool Spring Street.

Two (2) Box Culverts for Blunt Creek at Cool Spring Street.

Proposals must be marked "PROPOSAL FOR CONSTRUCTING BRIDGES AND CULVERTS." All bids must be made upon blank forms provided in copies of the Proposal, Contract and Specifications.

Each bid must be accompanied by a certified check in the amount of five (5) per cent of the amount of the bid as evidence of good faith.

Copies of Plans, Specifications, Form of

faith.

Copies of Plans, Specifications, Form of Proposal, Contract, etc., may be obtained upon application to the Engineer.

The right is reserved to reject any or all bids or to award contracts which, in the opinion of the Engineer and the Board, appear for the best interests of the city.

H. J. McBUIE, City Clerk.

WILLIAM C. OLSEN, Consulting Engineer, Raleigh, N. C.

Bids close May 13, 1924.

Road and Bridge Construction

Road and Bridge Construction

STATE HIGHWAY COMMISSION.

Richmond, Va.. April 21, 1924.

Sealed bids will be received at the offices of the State Highway Commission, State Office Building, Richmond, until 10,30 A. M. Tuesday, May 13, 1924, for the construction of the following:

1. PROJ. F-143C-RT-10. Three miles east of Bedford to Bedford, Bedford County, approximately 3.0 miles of Bit. Mac. surfacing only. No special design bridges. Work will not be started on this project until the contract which is now under way has advanced sufficiently to allow a surfacing plant on the project.

2. PROJ. F-260B-RT-31. Ashland, 2.3 miles south, in Hanover County, 2.3 miles of sheet asphalt surface on concrete base. Alt. bids on 8", 6", 8" concrete and 4" gravel sub-base, 4" asphaltic cone base and 14", sheet asphalt top. Approx. 7860 cu. yds. exc., 300 cu. yds. borrow, 152 lin. ft. pipe, 111 cu. yds. "A" conc., 6831 lbs. reinf. steel. No special design bridges. This work will be let in conjunction with project F-358A.

3. PROJ. F-265B-RT-111. End. Proj. 265A to 3.6 mi. towards Raven, in Buchanan County, 3.6 mi. 16' bituminous macadam approx. 24 Ac. clearing and grubbing, 74,681 cu. yds. excavation, 2190 lin. ft. pipe, 84 cu. yds. "A" conc., 280 cu. yds. "B" conc., 6970 reinf. steel, 13,510 lin. ft. wood gd. rail. No special design bridges.

4. PROJ. F-294B-RT-21. 5 mi. E. Luray-Rappahannock County line, 1.6 mi. bituminous macadam, approx. 15,600 cu. yds. excavation, 700 lin. ft. pipe, 29 cu. yds. "B" conc., 3650 lin. ft. wood gd. rail. No special design bridges. Page County.

5. PROJ. F-310C-RT-12. Lawrenceville (Sta. 117-46), to Sta. 280-70, Brunswick County, 3.1 mi. in length, 1.5 mi. 18', 8", 6", 8" conc., 16 mi 20' gravel roadway, approx. 3 Ac. clearing, 21,000 cu. yds. exc., 540 lin. ft. pipe, 136 cu. yds. "Conc., 3650 lin. ft. wood gd. rail. No special design bridges. Right is reserved to eliminate gravel surface.

6. PROJ. S-329B-RT-20. Phoenix-Charlotte C. H. (Sta. 633-00 to 983-00), Charlotte County, 6.6 mi. top soil surfacing only. No special design bridges. Work will not be started on this project until the contract which is now under way has advanced sufficiently to allow soiling outfit on the project.

the project.
7. PROJ. F-333-RT-10. Oakland Church-7. PROJ. F-333-RT-10. Oakland Church-Suffolk, Nansemond County, 8.2 ml. gravel roadway, approx. 20 Ac. clearing, 25,000 cu. yds. exc., 10,000 cu. yds. borrow, 1428 lin. ft. pipe, 38 cu. yds. "A" conc., 59 cu. yds. "B" conc., 3242 lbs. reinf. steel, 288 lin. ft. wood gd. rail. No special design bridges. Right reserved to let contract for gr. and dr. only.

yds. "B" conc., 3242 lbs. reinf. steel. 288 lin. ft. wood gd. rail. No special design bridges. Right reserved to let contract for gr. and dr. only.

8. PROJ. F-358A-RT-31. Ashland, 1.4 ml. north, Hanover County, 1.4 ml. sheet asph. surf. on conc. base, ALT, BIDS, 18", 8", 6", 8" conc. and 4" gravel sub-base, 4" asphaltic conc. base and 1½" sheet asphalt top, approx. 3372 cu. yds. exc., 480 cu. yds. borrow, 112 lin. ft. pipe, 108 cu. yds. "A" conc., 6628 lbs. reinf. steel. No special design bridges. This project will be let in conjunction with Project F-260B.

9. PROJ. F-368-RT-36. Alexandria—Beginning Proj. 113. in Fairfax County, approximately 2.2 ml. in length, Sta. 0-00 to 58-90, 1½" Binder, 1½" sheet asphalt ton, Sta, 58-90 to 114-00 3" Bit. Base and 1½" sheet asphalt top, approx. 2500 cu. yds. ex.. 160 lin. ft. pipe, 10 cu. yds. "A" conc. 57 cu. yds. "B" conc. No special design bridges.

Proposal guaranty to be \$500 for bids less than \$100,000 and \$1000 for bids more than \$100,000. Certified or cashier's check or proposal bonds acceptable.

Plans and specifications are on file at the office of the State Highway Commission and the offices of the following District Engineers: F-143C, Salem; F-260, F-310C and F-35BA, Richmond; F-265B, Bristol; F-333. Suffolk: F-368, Culpeper.

Additional plans for bidders on the above project may be obtained upon application to the State Highway Department, upon receipt of \$5, payable to H. G. Shirley, \$2.50 of which will be refunded if plans are returned within two weeks after bids are opened.

or which with two weeks after bids are opened.

Engineers will be at the following places to show prospective bidders over work as follows: F-143C, N. & W. R. R. Station, Bedford, Va., 12 noon Wednesday, May 7; F-260 and F-358, District Engineer's Office, Richmond, 10 A. M. Friday, May 9; F-365B, Stinson Hotel, Grundy, 12 noon Tuesday, April 29; F-294-B, Luray, 11 A. M. Monday, May 5; S-310C, Hotel Lawrenceville, 10.30 A. M. Friday, May 2; S-323B, Phoenix, 11 A. M. Monday, May 5; F-365, R. R. Station, Alexandria, 10.30 A. M. Tuesday, May 6. State Highway Commission reserves the right to reject any or all bids.

H. G. SHIPLLEY, Chairman.

C. S. MULLEN, Chief Engineer.

Bids close May 9, 1924.

Road Construction

STATE OF TENNESSEE. DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS.

Nashville, Tenn.

PUBLIC WORKS.

Nashville, Tenn.

Sealed bids will be received by the State of Tennessee, Department of Highways and Public Works, at their offices in Nashville. Tennessee, until Friday, May 9, 1924, and opened publicly at ten o'clock A. M., for the following construction:

Project 23, Cocke County—Gravel surfacing of 9.80 miles.

Project 202, Warren County—Grading, drainage and surfacing 18 feet in width of 12.62 miles.

Project 204, Tipton County—Grading and drainage of 4.74 miles.

Project 205, Cheatham County—Grading and drainage of 9.53 miles.

Project 207. Loudon County—Grading and drainage of 5.23 miles.

Project 123. Putnam County—Grading, drainage and bituminous macadam surfacing of 7.35 miles.

Project 151, Coffee County—Drainage and ement concrete surfacing of five miles.

Project 166, Trousdale County—Grading, drainage and bituminous macadam surface construction of 5.35 miles.

Plans and specifications are on file in the offices of the Department of Highways and Public Works at Nashville, Tennessee.

The right to reject any or all bids is reserved.

J. G. CREVELING, JR., Commissioner.

Bids close May 13, 1924.

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Highway Construction

STATE OF MARYLAND, STATE ROADS COMMISSION, NOTICE TO CONTRACTORS,

Baltimore, Md.

Sealed proposals for building seven sections of State Highway as follows:
Allegany County—Cont. A-26. One section of State highway along the Oldtown Road from the Western Maryland Crossing at North Branch to Patterson Depot, a distance of 1.55 miles. (Concrete.)

Prince George County—Cont. P-50. One section of State highway along the Defense Highway from end of Cont. P-32 toward Collington, for a distance of 2.0 mlles. (Concrete.)

Prince George County—Cont. P-45. One section of State Highway from the Crain Highway toward Croom for a distance of 2.0 miles. (Gravel.)

Baltimore County—Cont. B-62. One section of State highway from Chase toward Cowenton for a distance of 2.14 miles. (Concrete.)

Harford County—Cont. H-37. One section

Cowenton for a distance of 2.14 miles.

(Concrete.)

Harford County—Cont. H-37. One section of State highway from end of Contract H-34 toward Dublin for a distance of 1.0 mile. (Concrete.)

Caroline County—Cont. Co-34. One section of State highway from end of Contract Co-28 to Burrsville, a distance of 1.35 miles. (Concrete.)

Wicomico County—Cont. Wi-25. One section of State highway from end of Contract Wi-23 toward Nanticoke, a distance of 2.0 miles. (Concrete.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland. until 12 M. on the 13th day of May, 1924, at which time and place they will be publicly opened and read. Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted. No bids will be received unless accompanied by a certified check for the sum of five hundred (\$500) dollars, payable to the State Roads Commission.

The successful bidder will be required to the General Assembly of Maryland respecting contracts.

The Commission reserves the right to re-

contracts,

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 28th day of April, 1924.

JOHN H. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close May 6, 1924.

Highway Construction

Highway Construction

STATE OF MARYLAND.

STATE ROADS COMMISSION.

NOTICE TO CONTRACTORS.

Baltimore. Md.

SEALED PROPOSALS for building six sections of State Highway, as follows:

Baltimore County—Cont. B-50. One section of State highway along the Falls Road from Shawan toward Butler for a distance of 0.95 mile. (Macadam Resurfacing.)

Baltimore County—Cont. B-61. One section of State highway from Baldwin toward Sweet Air for a distance of 2.0 miles. (Concrete.)

Frederick County—Cont. F-78. One section of State highway along Market Street, Frederick, from South Street to Seventh Street, a distance of 0.85 mile. (Sheet Asphalt.)

Calvert County—Cont. C-18. One section of State highway through Solomon's Island from end of bridge to Post Office, a distance of 0.32 mile. (Concrete.)

Kent County—Cont. K-24. One section of State highway from end of Cont. K-22

fice, a distance of 0.32 mile. (Concrete.)

Kent County—Cont. K-24. One section of State highway from end of Cont. K-22 to Pomona, a distance of 1.95 miles. (Concrete.)

Talbot County—Cont. T-17. One section of State highway along Washington Street, Easton, from Bay Street to Aurora Street extended, a distance of 0.52 mile. (Concrete.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland. until 12 M. on the 6th day of May, 1924, at which time and place they will be publicly opened and read. Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted. No bids will be received unless accompanied by a certified check for the sum of

Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and compily with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 21st day of April, 1924.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close May 15, 1924.

Navigation Channel

ENGINEERING DEPARTMENT PARISH OF CALCASIEU, LOUISIANA

Lake Charles, La.

PARISH OF CALCASIEU, LOUISIANA

Lake Charles, La.

Sealed bids will be received by the Police
Jury of the Parish of Calcasieu, Louisiana,
until noon. Thursday, May 15, 1924, in the
Police Jury Room, Court House, Lake
Charles, Louisiana, and then and there publicly opened, for the construction of part
of a Navigation Channel, 30 feet deep by
125 feet wide on the bottom, from Lake
Charles to the Sablne River.

SECTION 4.

The construction of a channel 30 feet
deep and 125 feet wide on the bottom
from Station 322 on the Intercoastal
Canal west to Station 577. A distance
of 4.83 miles. Approximately 4,400,000
cubic yards of earth to be moved.

This work is along the present Intracoastal Canal, which on this Section
is 6 feet deep by 40 feet wide on the
bottom, with a Pilot Cut 12 feet deep
by 40 feet wide on the bottom from
Station 322 to 350. The Government
Dredge "Blackwater" is at present at
Station 240 working West, completing
the Canal to 12 feet deep by 90 feet
wide on the bottom, and will probably
reach Station 322 to 360 is a marsh
with knolls and ridges; Elevation +1.0
to +3.0. From Station 360 to 480 is
deep cut grass marsh; Elevation about
+1.0. From Station 480 to 577 is
black grass marsh and low ridges; Elevation +1.0 to +3.0.

SECTION 6

The construction of a channel 30 feet
deep and 125 feetwide on the bottom,
from Station 58 on the Intracoastal
Canal (which is Station O-46 of Cut
Off Line) Northeast to Station 118+00
in the Calcasieu River, a distance of
2.26 miles.

Approximately 2,100,000 cubic yards
of earth to be moved. This work is a

off Line) Northeast to Station 118+00 in the Calcasieu River, a distance of 2.26 miles.

Approximately 2.100,000 cubic yards of earth to be moved. This work is a Cut Off between the present Intracoastal Canal and the Calcasieu River. From Station 53+50 to 79+00 the marsh; Elevation +1.0 to +2.0. From Station 53+50 to 79+00 the location follows Choupique Bayou, which will be widened and deepened. From Station 79+00 to 115 the land is marsh and low ridges; Elevation +1.0 to +3.0. Station 115 to 118 is in the River.

Average stage of water +1.2. All depths and elevations refer to Mean Low Gulf Datum.

Evrry bid shall be accompanied by a certified check in an amount equal to five percent (5%) of the amount of the bid, payable to the Treasurer of Cacasieu Parish, which check shall be forfeited to the Parish should bidder to whom such contract is awarded fail to enter into the contract required within ten (10) days after notice to do so from the Police Jury of Calcasieu Parish.

The Police Jury reserves the right to re-

do so from the Police July
Parish.

The Police Jury reserves the right to reject any or all bids.

V. R. REEVES,

President, Police Jury.

FRED SHUTTS,

Parish Engineer.

Bids close May 1, 1924.

Water Mains

Saluda, N. C.

Sealed bids will be received by the Town of Saluda, N. C., until 2 P. M., May 1, 1924, for the laying of 11,600 feet 6", 8" and 10" water mains, furnishing and placing 225 water meters and meter boxes and making house connections. Bidder's check of \$500, made payable to the Town Clerk of Saluda, N. C., will be required. Specifications will be forwarded on request to the Town Clerk or the Engineer.

or the Engineer.

P. H. BAILEY. Mayor.

J. B. CULLIPHER, Clerk.

HARWOOD BEEBE, Engineer,

Spartanburg, S. C.

Bids close May 19, 1924.

Water Works and Sewers

Altavista, Va.

Bids will be received by the Mayor and Town Council of the Town of Altavista, Virginia, until 6 o'clock P. M. of May 19, 1924, for the construction of a filtration and pumping plant for the municipal water works, and also for water and sewer mains in the town.

The work will include 650 feet of 10" cast iron suction main, with crib and appurtenances.

cast fron suction main, with crib and appurtenances.

Concrete and brick building for the plant.

A 30,000 gallon steel wash water tank.

5550 feet of 8" cast-iron force main.

A 50,000 gallon steel standpipe.

Two low surface centrifugal pumps, each of 350 g. p. m. capacity.

Two high service centrifugal pumps, each of 350 g. p. m. capacity.

One 30 h. p. and one 7.5 h. p. electric motor, with wiring, etc.

One semi-Diesel fuel oil engine of not less than 45 h. p.

All necessary filter equipment for a single 500,000 g. p. day unit.

A considerable amount of cast-iron mains from 4" to 10".

A considerable amount of sewer mains from 4" to 10".

from 4" to 10".

A considerable amount of sewer mains from 6" to 15".

The right is reserved to reject any or all bids, and to let the work as a whole or in parts.

Each bidder will be required to file with his bid a certified check, cashier's check or bidder's bond in the sum of 5% of the face of his bid.

Lach binder win be required to the with his bid a certified check, cashier's check or bidder's bond in the sum of 5% of the face of his bid.

This check or bond will become a forfeit to the Town of Altavista if contract is not entered upon and bond executed promptly after the award.

The successful bidder will be required to execute an indemnity bond, in the sum of one-third the face of his bid, to safeguard the satisfactory performance of the contract. This bond must be made by some satisfactory bonding company.

Plans and specifications may be examined at the office of Mr. W. S. Corbin, Altavista, Virginia, who will furnish a set to contractors only on receipt of a check for \$10.

This deposit will be returned only to those who have submitted bona fide bids and returned the plans and specifications in good condition before the time of the receipt of bids.

W. S. CORBIN. W. S. CORBIN,

Chairman Water Committee,

THE AMBLER ENGINEERING CO., Richmond, Virginia.

Bids close June 3, 1924.

Water Works Improvements

Weldon, N. C.

Weldon, N. C.

Sealed proposals will be received by the Mayor and Board of Town Commissioners of the Town of Weldon, N. C., at the office of the Town Clerk in Weldon, N. C., until noon June 3, 1924, for Water Works Improvements.

The work will consist of:
Brick and Concrete Pumping Station, Filter House and Filter Tubs.
Concrete Coagulating Basin.
Concrete Storage Reservoir.
Filter Plant Equipment,
Steel Wash Water Tank and Tower.
Brick and Concrete Auxiliary Station.
Motor-driven Centrifugal Pumps and accessories.
Proposals must be marked "Proposal for Water Works Improvements"
All bids must be upon blank forms provided in the "Proposal, Specifications and Contract."

Each bid must be accompanied by a certified check for not less than five year cent of the contract."

Each bid must be accompanied by a certified check for not less than five per cent of the amount of the bid as evidence of good

faith.

Plans and specifications will be on file at the Clerk's office in Weldon and at the office of the Engineer in Durham, N. C., and copies of specifications, forms of proposal, etc., and the plans will be mailed upon application to the Engineer at Durham, N. C., accompanied by payment of six dollars (\$6) for each set of plans.

The right is reserved to reject any or all bids.

W. W. WIGGINS, Mayor.

E. L. HAYWARD, Clerk. GILBERT C. WHITE CO., Engineers, Durham, N. C.

Bids close June 6, 1924.

Concrete Sea-Wall

Concrete Sea-Wall

Tampa, Fla.

Sealed bids will be received by the Board of County Commissioners. Hillsborough County, Florida, until 11 A. M. Friday, June 6, 1924, for the construction of approximately two and one-half miles of concrete sea-wall, hydraulic fill, sidewalk, curb and drainage appurtenances.

Wall extends from city limits of Tampa south to Ballast Point.

Plans and specifications may be obtained by application at the office of the County Engineer, Courthouse, Tampa, Fla. A deposit of \$10 will be required for each set, deposit to be refunded upon return of plans before June 6.

before June 6.

Following is a list of approximate quan-

Chairman.

The Board reserves the right to reject any or all bids.

CHAS. T. FRIEND. Chairman Board County Commissioners, Hillsborough County, Fla.

Bids close May 20, 1924.

Waterfront Improvements.

Waterfront Improvements.

Daytona, Fla.

Sealed bids will be received by the City of Daytona, Florida, at the City Hall in Daytona, up to 2 P. M. on May 20, 1924, for the construction of waterfront improvements. The work is divided into three contracts and will be let to one or more bidders. Contract No. 1 embraces about 5500 lineal feet of sea wall about seven feet high, about 192,000 cubic yards earth fill and miscellaneous small work. Contract No. 2 embraces about 1300 lineal feet of sea wall about seven feet high, about seven feet high, about 1400 cubic yards earth fill and miscellaneous small work. Contract No. 3 embraces about 3300 lineal feet of sea wall about six feet high and about 103,000 cubic yards of earth fill.

Bids shall be accompanied by a certified check payable to Miss L. E. Hough, City Clerk, for an amount of five per cent of the bid, to be forfeited as liquidated damages by any bidder who is awarded a contract and who falls promptly to execute the contract and bond. Certified checks will be returned to bidders upon execution of contracts and bond. Or tified checks will be returned to bidders upon execution of proper authorities. The purchaser reserves the right to reject any and all bids and to waive informalities. Bids shall be based upon plans and specifications now on file in the office of the City Clerk at Daytona. Florida, and in the office of Harrington, Howard & Ash, Consulting Engineers, Kansas City, Mo. Copies of plans and specifications may be secured from the Consulting Engineers by depositing \$25. These plans shall be returned and \$15 will be refunded.

A surety company bond satisfactory to the purchaser in the full amount of the value of each contract will be required.

L. E. HOUGH, City Clerk

Bids close May 20, 1924.

Paving

Tavares, Fla.

Sealed proposals on blank forms furnished by the town and addressed to the "Mayor and Council of Tavares, Florida," will be received until two P. M. May 20, 1924, at Tavares, Florida, for furnishing all material, equipment and labor for doing the following work:

Approximately 84,000 square yards of street paving, with all necessary drainage, curb and gutter and other work incidental thereto, as set out in the plans and specifications.

cations.

Each bid must be accompanied by a certified check or bidders' bond, made payable to the Town Clerk, for not less than five thousand dollars (\$5000).

Plans and specifications may be seen at the office of the City Clerk in Tavares, Florida, and at the office of the Engineers in Elberton, Georgia, and Leesburg, Florida.

Full sets of plans and specifications will be furnished by the Engineers upon pay-

ment of \$25, half of which will be refunded upon the return of the plans in good shape. Specifications will be furnished by the Engi-neers upon payment of five dollars. The right is reserved to reject any or all

J. W. HUNTER, Mayor. W. B. FEAGLE, Clerk. S. JAUDON ENGINEERING CO.,

Engineers. Elberton, Ga.; Leesburg, Fla.

Bids close May 6, 1924.

Street Improvement

Haines City, Fla.
Sealed proposals addressed to the Board
of Mayor and Town Council, Haines City,
Fla., and marked "Sealed Proposal for Paving Improvements" will be received until 2
P. M. May 6, 1924, to be opened immediately
thereafter, for furnishing material, equipment and labor and constructing certain
work in Haines City, Fla., approximately as
follows: follows: 43.700 square yards paving. Also necessary curbing, gutters and ap-

purtenances

purtenances.

Bids will be received on sheet asphalt, asphaltic concrete, vitrified brick and asphalt block paving, and separate bids may be submitted on curbs and gutters and for furnishing brick or block f. o. b. cars at Haines

nishing brick or block f. o. b. cars at Haines City.

Each bid is to be on blank forms furnished by the Clerk and is to be accompanied by a certified check or bid bond issued by a bonding company qualified to do business in Florida, made payable to the Town of Haines City, Fla., for \$1500 on curb and gutter construction or on furnishing brick or blocks delivered at Haines City, or \$3000 on general construction contract.

Certified check or bid bond will be forfeited as liquidated damage to the town if contract and bond are not executed within the time specified if town accepts proposal; otherwise will be returned within ten days.

The right is reserved to reject any or all bids.

The right is reserved to bids.

Plans and specifications may be seen at the office of the Clerk, and specifications may be obtained from the Clerk upon payment of \$2 to cover cost of reproduction.

JED R. YALE, Clerk.

E. V. CAMP AND ASSOCIATES.

Consulting, Supervising and Testing Engineers,

Atlanta, Ga., Jacksonville, Fla.

Bids close May 16, 1924.

Street Paving & Storm Drainage

Forsyth, Ga.

Forsyth, Ga.

Sealed proposals will be received by the Board of Bond Commissioners of Forsyth, Georgia, at the City Hall for furnishing materials and labor to construct pavements, sidewalks and storm drainage in and for the City of Forsyth, Georgia, until 11 A. M. May 16, 1924, at which time they will be opened and read publicly.

The work includes the furnishing of all labor, material, machinery and equipment of every kind necessary to construct approximately 22,500 square yards of concrete pavement, with curb and gutter and other appurtenances. 20,000 square yards of sidewalks and 2000 lineal feet of storm drains, all complete in place and in accordance with the plans and apecifications on file at the office of the Engineers and the City Clerk. Each bid must be accompanied by a certified check on a bank satisfactory to the Bond Commissioners, or a bidder's bond acceptable to the Bond Commissioners for five (5) per cent of the amount bid, drawn to the order of the City Clerk of Forsyth, Georgia.

All bids will be compared on the basis of

Georgia.

All bids will be compared on the basis of the Engineers' estimate of the work to be

done.

Copies of the specifications may be obtained from the Engineers or City Clerk upon receipt of deposit of five (\$5.00) dollars, which will be returned on bona fide bids. Plans may be seen at the office of the Engineers or at the office of the City Clerk. The right is reserved to reject any or all bids and the contract may be awarded as a whole or in part to one or more bidders as considered to the best interest of the city.

R. T. PERSONS,

J. L. McGHEE,

W. H. NEWTON, R. C. GOOLSBY, SR.,

J. M. MOORE,

Bond Commissioners.

J. B. McCRARY ENGINEERING CORPORATION, Engineers, Atlanta, Georgia.

Bids close May 14, 1924.

Street Paving

Baton Rouge, La.

Baton Rouge, La.

Sealed bids will be received by the Commission Council, Baton Rouge, La., at the City Hall until 10 A. M., May 14, 1924, for paving forty-six streets.

APPROXIMATE QUANTITIES:
97.300 sq. yds. 2" Warrenite Bitulithic or 2" Asphaltic Concrete.
86,124 sq. yds. 5" Concrete Base.
18,733 sq. yds. 3" Asphaltic Concrete Base (alternate).
67,600 sq. yds. Brick Surfacing (alternate).

11,176 sq. yds. Preparation Gravel Base. 50,000 lin. ft. Curb and Gutter. 19,000 cu. yds Excavation. 150 Catch Basins. 10,000 lin. ft. Pipe, miscellaneous, 10"-24"

24".

Plans and specifications are on file in the office of the Consulting Engineer, City Hall, Baton Rouge, La. Copies may be had upon payment of Fifteen Dollars, which will not be returned. A certified check or bidder's bond for five per cent of amount bid, payable to the Commissioner of Finance, City of Baton Rouge, La., must accompany each bid.

J. W. BILLINGSLEY

J. W. BILLINGSLEY, Consulting Engineer.

Bids close May 20, 1924.

Paving

Gulfport, Fla.

Gulfport, Fla.

Sealed proposals will be received at the office of the Town Clerk of the Town of Gulfport, Florida, until 7.30 P. M., May 20, 1924, for approximately 115,000 sq. yds. brick paving and approximately 93,000 lineal feet of granite curb.

Certified check for \$500 (Five Hundred Dollars) to accompany each bid.

The Town reserves the right to reject any or all bids.

Plans and specifications on file with the Town Clerk and with R. D. Brodie, Town Engineer.

Engineer. W. W. SWIFT, Town Clerk.

Bids close May 20, 1924.

Sanitary Sewers

Birmingham, Ala.

Birmingham, Ala.

Sealed proposals will be received by the undersigned until 10 o'clock A. M. Tuesday, May 20, 1924, for the construction of approximately 14,000 lineal feet 8-inch, 4000 lineal feet 10-inch, 2000 lineal feet 12-inch, 4000 lineal feet 15-inch and 1200 lineal feet 18-inch terra cotta sewers; 4500 lineal feet 30-inch sewers, together with necessary manholes and appurtenances, under Improvement Ordinance No. 346-D. Specifications may be obtained and plans examined at this office. The right is reserved to reject any or all proposals.

A. J. HAWKINS, City Engineer.

Bids close May 7, 1924.

Sanitary and Storm Sewers

Bainbridge, Ga.

Sealed proposals will be received by the Mayor and Council of the City of Bainbridge, Ga., at the Council Chamber, in Bainbridge, until 3 P. M., May 7, 1924, for furnishing materials and constructing approximately four miles of 8" to 12" Sanitary Sewers, and about two miles of 15" to 36" Storm Sewers, with necessary Manholes, etc."

tary Sewers, and about two miles of 15" to 36" Storm Sewers, with necessary Manholes, etc. *
Each bid must be accompanied by a certified check for \$2500, made payable to the Mayor, as assurance of good faith; the check to be returned if proposal is rejected, or if contract is awarded and bond furnished. An approved Bid Bond, issued by a bonding company authorized to do business in Georgia, will be accepted in lieu of a check.

Plans and specifications will not be ready until April 20th. After that date they may be examined at the office of the City Clerk in Bainbridge, or at the office of the Engineer at No. 34 Cone St., Atlanta, Ga. Specifications will be furnished without charge, and a set of plans will be furnished by the Engineer on receipt of four dollars, half of which will be refunded on return of the plans, in good condition within one week after date of letting.

J. W. CALLAHAN. Mayor.

J. W. CALLAHAN. Mayor.

J. A. REID, City Clerk.

ARTHUR PEW, Engineer,

34 Cone St., Atlanta, Ga.

Bids close May 14, 1924.

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Street Lighting System

The City of Johnson City, Tenn.

The City of Johnson City, Tennessee, proposes to install an ornamental street lighting system, commonly known as White-Ways, along certain streets, and the Board of Commissioners of said city will open bids for said work at its regular meeting to be held at 2 P. M. May 14, 1924. All bids should be filed with the Recorder of said city.

held at 2 f. M. May 17, 1023.

should be filed with the Recorder of said city.

The city reserves the right to award the contract as a whole to one contractor, or to award individual contracts on each section separately to different contractors.

The proposed ornamental street lighting system will be of the Single Standard Type and will require 175 standards, more or less. Bids are desired on:

(a) Constant current regulating transformers, control panels, measuring instruments and current transformers.

(b) Ornamental posts complete with tops, sockets, glassware, compensators, canopies and potheads.

(c) Required number of street series lamps for tip-up burning.

(d) All necessary wire and underground cable.

(e) Installation of the whole equipment for compension to the legal power

(d) All necessary were and underground cable.

(e) Installation of the whole equipment ready for connection to the local power company's lines.

Plans and specifications are being prepared under the supervision of the City Engineer and will be furnished prospective bidders upon request as soon as they are prepared.

Bids must be accompanied by a certified check or suitable bond in a sum of at least ten per cent of the amount of the bid, and the successful bidder will be required to execute a bond in amount equal to fifty per cent of the contract price, conditioned that the contractor shall well and truly perform all of the terms and conditions of the contract.

The city reserves the right to reject any and all bids.

By order of the Board of Commissioners.
T. H. McNIEL, Recorder.

Bids close May 13, 1924.

Detention Home, Dormitory, Etc.
Wise, Va., April 8, 1924.

The Board of Supervisors of Wise County, Va., invites bids for the construction, on the Poor Farm property of the county near Wise, Va., of a Detention Home, a Dormitory for the Poor Farm, a utilities building and accessories in accordance with plans and specifications prepared for the same by Architect R. B. McGeckin, Big Stone Gap, Va.

ing and accessories in accordance with pians and specifications prepared for the same by Architect R. B. McGeckin, Big Stone Gap, Va.

To be considered bids must be in the hands of R. R. Roberts, Clerk of the Court, Wise County, Va., before 10 o'clock A. M. May 13, 1924, accompanied by a certified check for \$500, payable to R. R. Roberts, as a guarantee that the bidder will enter into contract and furnish a satisfactory surety bond for \$25,000. Said certified check will be forfeited to Wise County should the bidder fail to qualify, or will be returned if proposal is rejected or contract awarded and bond furnished.

Plans and specifications and any further information concerning the work may be obtained from the architect upon deposit with him of a check for \$25, payable to his order. This amount will be returned upon the return to him of the plans and specifications in good order.

Bids will be opened in open meeting of the Board on May 13, 1924. The right to reject any or all bids is reserved by the Board.

Bids close May 5, 1924.

School Building

Union, S. C., April 12, 1924.

On Monday, May 5, 1924, at 2 P. M., The
Union-Buffalo Mills Co., of Union, S. C.,
will receive bids for the construction of a
new School Building to be built at Buffalo,
S. C.

S. C.

Buffalo, S. C., is on the B. U. C. Railroad and about four miles from Union, S. C.

The building will be a Grammar School, two stories and basement, approximately 60x90 feet in size, with ten classrooms.

The building will have outside walls of brick, Tar and Gravel Roof, wood joist floor and roof framing, and will contain a certain amount of plain and reinforced concrete work, etc.

tain amount of plain and reinforced concrete work, etc.

The exterior will be of Texture Face Brick with Artificial Stone trimmings.

The building will contain Heating plant. Plumbing and Electric work.

Plans and specifications are on file for the inspection of bidders at the office of Jones & Trott, Inc., Architects, Greenville, S. C., and also at the following places:

Columbia, S. C., Builders' Exchange.
Atlanta, Ga., Builders' Exchange.
Richmond, Va., Builders' Exchange.
Knoxville, Tenn., General Contractors Association.
Responsible prospective bidders may obtain loan of a set of plans and specifications by a payment to the Architect of \$20, which will be refunded if the plans and specifications are returned with bona fide bid on the time above set.
Each bidder must attach to his proposal a certified check for the amount of 2% of his bid, made payable to the Union-Buffalo Mills Co., as a guarantee that if his bid is accepted he will enter into contract and execute the bond as required.

The Company reserves the right to reject any or all bids.

The Union-Buffalo Mills Co.,
H. B. JENNINGS.
JONES & TROTT, INC., Architects.
Greenville, S. C.

Bids close May 17, 1924.

Court House

McKee, Ky.
Pursuant to an order of the Jackson

Greenville, S. C.

Bids close May 17, 1924.

Court House

Pursuant to an order of the Jackson County Fiscal Court, as appears of record at page 343, order book No. 2 of said court, and by authority therein conferred, the building commission of Jackson County invites sealed proposals for the erection and completion of a NEW COURT HOUSE, on the County's property, the cost of said house not to exceed in the aggregate the sum of \$50,000, according to plans and specifications prepared and submitted by MILBURN, HEISTER & CO., architects, of Washington, D. C., or agreeable to plans and specifications submitted by the bidder or bidders.

Said plans and specifications are on file in the Jackson County Clerk's Office in McKee, Ky. A copy of said plans and specifications will be furnished to anyone desiring to bid on said Court House by leaving \$25 or a certified check for the said amount with C. P. Moore, county judge, said money to be refunded when the plans and specifications are returned in good condition.

Bids will be received until FOUR o'clock P. M. on Saturday, May the 17th, 1924. Same should be plainly marked, "Proposals for building New Court House," and addressed to C. P. Moore, County Judge, McKee, Ky. Each bid must be accompanied by a certified check for \$2000, on some well-known bank, made payable to C. P. Moore, as evidence of good faith, and if their bid is accepted, as guarantee that they will enter into contract at once and give an acceptable bond in the sum of \$25,000 for the faithful performance of the contract, and should they fail to enter into contract to check for the said \$2000 will be forfeited to Jackson County as liquidated damages by reason of delay and failure to enter into contract.

Jackson County is in a position to accept a bid and award a contract to the amount of \$50,000.

The Fiscal Court will meet on Monday, the 19th day of May, 1924, and will accept whatever bid the court thinks best, if any, on said plans and specifications, or on plans and specifications submitted by the bidder, b

C. P. MOORE. Chairman Building Commission. Bids close May 8, 1924.

Erection of Water Standpipe

Erection of Water Standpipe

Reidsville, N. C.

The Mayor and Council of the City of Reidsville. North Carolina, will receive sealed bids until 2:30 o'clock, P. M. Thursday the Sth day of May, 1924 at the City Hall, Reidsville, N. C., at which time all proposals will be publicly opened and read, for furnishing materials, labor, tools and equipment to complete such contract as may be entered into for furnishing and erecting a steel water standpipe 31 feet in diameter. 141 feet high. complete with foundation and all appurtenances according to Manufacturers Standard Specifications.

Each bid must be accompanied with a cerified check to the amount of 5% of the bid and not less than \$250.00 payable to the Treasurer of the City of Reidsville, N. C. without recourse.

All bids must be placed in a sealed envelope, endorsed on the outside, "Proposal for Standpipe." The City prefers to let the entire work in one contract but reserves the right to waive technicalities and let the work in parts of the work as is considered to the best interest of the City, and reserves the right to reject any and all bids.

The contractor must furnish necessary bond guaranteeing materials, construction, etc.

EDD WRENN, City Manager.

Bids close May 20, 1924.

Municipal Water and Light Plant **Improvements**

Improvements

New Iberia, La.
Sealed proposals will be received by the City of New Iberia, La., at the Clerk's office until 3. o'clock P. M. May 20, 1924, for furnishing and installing of machinery and equipment and doing such work as outlined hereafter in connection with the improvements to the water and light plant.

The work will consist of the furnishing and installation of two 275 K.W. alternating current generators, direct connected to Diesel oll engines, a switchboard, two 1000 GPM Centrifugal pump, one 1000 GPM Centrifugal pump, one 1000 GPM Centrifugal pump, all pumps direct motor driven, the construction of a new power-house building and a 200,000-gallon reinforced concrete reservoir.

Plans and specifications are on file at the Clerk's office at New Iberia and in the office of J. W. Billingsley, Consulting Engineer, Interstate Bank Building, New Orleans. Copies of the plans and specifications may be obtained from the Engineer upon payment of \$10, which will not be returned.

A deposit of \$500 in cash or certified check is required with each proposal.

A bond to the amount of 50% of the price bid is required with the contract.

Proposal must be submitted on the special form provided by the Engineer and shall be sealed and addressed to the City Clerk.

The right is reserved to reject any or all bids.

LAWRENCE F. VILLERMIN.

J. W. BILLINGSLEY,
Consulting Engineer.

Waterworks and Sewer System Material

Latta, S. C.
Sealed bids will be received until 2 P. M.,
Monday, May 5th, 1924, at the office of the
Commissioners of Public Works and Sewerage of Latta, S. C., on furnishing the following material and equipment for the construction of Waterworks and Sewer Systems:

1—75 G.P.M. Deep Well Pump. 1—10 HP. 220 V, 3 phase, 60 cycle, 1200 RPM Slip Ring Motor. 3—3 K.V.A. 2200/220-110 Transform-

3-3 K.V.A. 2200/220-110 Transformers.
ers.
1-750 G.P.M. Centrifugal Pump.
1-75 HP, 2200 V, 3 phase, 60 cycle, 1800 RPM Slip Ring Motor.
1-75,000 Gallon Steel Tank on 100 Ft. Tower.
24-Ft. 16" B&S Pipe Class "A."
96-Ft. 12" B&S Pipe Class "A."
48-Ft. 10" B&S Pipe Class "A."
132-Ft. 8" B&S Pipe Class "A."
1.800-Ft. 8" B&S Pipe Class "B" or Centrifugal.
7.176-Ft. 6" B&S Pipe Class "B" or Centrifugal.
5-Tons Cast Iron Fittings.
11,450-Ft. 1\(\frac{1}{2}\)" Galv. Pipe.
23-Standard Hydrants, 6" base, 3" ditch.

11,450—Ft. 1½" Galv. Pipe.

23—Standard Hydrants, 6" base, 3' ditch.

5—8" H.E. Gate Valves & Boxes.

10—6" H.E. Gate Valves & Boxes.

13—1½" H.E. Gate Valves & Boxes.

13—1½" H.E. Gate Valves & Boxes.

500—Bbls. Portland Cement.

100—Cu. yds. Concrete Sand.

60—Cu yds. Brick Sand.

220—Tons Crusher Rock or Washed Gravel.

15,000—Lbs. Reinforcing Steel.

3—Manhole Castings (200 lbs.)

74—Manhole Castings (300 lbs.)

240—Manhole Steps.

57,500—All Hard Common Brick.

2,000—Lbs. Dry Jute.

400—Lbs. Oiled Jute.

11—Automatic Flush Tank Siphons.

4,545—Ft. 15" No. 1 Sewer Pipe.

3,175—Ft. 12" No. 1 Sewer Pipe.

2,615—Ft. 10" No. 1 Sewer Pipe.

14,735—Ft. 8" No. 1 Sewer Pipe.

14,735—Ft. 8" No. 1 Sewer Pipe.

Necessary Sewer Pipe Specials.

Specifications will be furnished upon application either to the Chairman of the Commission, the Engineers or the Contractors.

Commissioners of Public Works and

Commissioners of Public Works and Sewerage.

M. H. COX, Chairman. RYAN ENGINEERING CO., Engineers, Columbia, S. C. J. B. McCRARY CO., Contractors, Atlanta, Georgia.



CLASSIFIED OPPORTUNITIES



MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES

FOR SALE—Moulding and Silica Sand Land, Clay Land and Factory Sites. Address T. J. NERTNEY, Ottawa, Ill.

ARIZONA COPPER GROUPS—32 claims, \$175.000; 38 claims, \$300,000; 15 claims, \$18,000. Arizona gold; big body, free milling, 80 feet wide; runs \$3.20, with 7 parallel veins 2 to 10 feet running from \$3.00 to \$60.00. Price \$30,000. A. H. Blinebry, Box \$27, El Paso, Tex.

I HAVE MANY fine southern timber tracts, large mineral tracts, plantations, country estates and colonization tracts for sale; some can be exchanged clear for good city income property. Principals only write me fully. Arthur M. Connor, 728 14th Street N. W., Washington, D. C.

MANGANESE

FOR SALE OR IEASE—Large quanti-ties of manganese and manganiferous ore. Equipment and railroad facilities installed. Address No. 6325, care Manufacturers Record.

STONE QUARRY

FOR SALE OR LEASE—One of the largest stone quarries in Virginia, stone already quarried. Splendid opportunity. Address No. 6226, care Manufacturers Record.

TIMBER AND TIMBER LAND

FOR SALE—15 to 20 Million Ft, best Hardwood and White Pine timber in West Virginia. This is not a timber broker's proposition and am not interested in corresponding with anyone except lumber manufacturers who are open for good stumpage proposition and wish to make immediate investigation. Address No. 6312, care Manufacturers Record, Baltimore, Md.

FARM, FRUIT, AND TRUCK LANDS

FLORIDA

FLORIDA—Playground of the Rich; Paradise of the poor. The fastest developing State in the Union, and Roger Babson, the great business statistician, says that TAMPA is destined to be the greatest city in the Southeast. Come and be one of us. We have a Home. Grove or Farm for you. Send today for booklet. "Largest Orange Tree in the World," and list. Tampa. West Coast Realty Co., (Inc.). Opp. Post Office, "Since before the war," Tampa, Fla.

FLORIDA COLONIZATION LANDS.

Approximately 16.000 acres of lands suitable for general farming, trucking, or citrus culture. Located near Ocala, the County Seat of Marion County, in the ridgelands of Central Florida. In order to close up estate will take \$6.00 per acre if purchaser takes entire tract. W. N. Horne, Ocala, Fla.

FOR SALE—50 A bearing Orange Grove. Estimated crop for coming season 15,000 boxes. Located 3 miles from Leesburg on Lake Harris. No better location in Florida. If interested write for full information and price. B. F. Watts, Leesburg, Fla.

FLORIDA REAL ESTATE SERVICE—I buy, sell, lease, exchange, inspect and report upon properties in all parts of the state. I am familiar with conditions and values in every section and can handle your business to advantage. J. H. Brinson, Tallahassee, Fla.

FOR SALE

FOR SALE

Sx thousand acres of land, good for fruit and farming, also fine satsuma orange land, high, well drained, over two hundred feet above sea level; fine lakes and good fishing and hunting, will take \$12.50 per acre, other land in same vicinity has been selling as high as \$200.00 per acre, this is a good purchase. Will net any purchaser 8 per cent annually on his investment. Apply to G. M. Thomas, Marianna, Fla.

BUSINESS OPPORTUNITIES

HERE IS WHAT YOU HAVE BEEN
LOOKING FOR.
N OPPORTUNITY TO OWN ONE OF
THE MOST BEAUTIFUL PLACES
IN AMERICA.

THE MOST BEAUTIFUL PLACES

IN AMERICA.

The Emerald Valley of Ashe County.
North Carolina, is now accessible by good
motor road, and will soon become widely
known to lovers of nature. I am offering the
most charming spot in the Valley for sale.
Seven hundred and fifty acres, located
near the picturesque little village of Creston,
N. C., 20 minutes' drive over scenic road
from railroad station. Delightful and healthful climate, 3000 feet elevation, sheltered
by two grand peaks each over 5000 feet.
One hundred acres level meadow, not subject
to overflow, three hundred and fifty acres
rolling pasture, remainder in original forest,
containing over 3,000,000 feet of magnificent
oak, maple, chestnut and other hardwoods.
Suitable for country estate or summer resort development. Swimming, trout fishing,
pheasant and quall shooting, mountain
climbing, polo, golf. Gravity water supply of
pure mountain water can be obtained and 100
H.P. hydro-electric power can be developed.
For further particulars regarding this
wonderfully beautiful and fertile place ad
dress W. H. Worth, Jefferson, N. C.

I SPECIALIZE in industrial, warehouse and business sites at or near Tampa, Florida, the seventh largest port in the United States. Jasper Walker, P. O. Box 674, Tampa, Florida.

WANTED CAPITAL to develop townsite, own 640 acres that two railroads cross on, in S. E. Okla., surrounded by coal, oil, gas and rich farming. Particulars to interested parties only. Write J. E. Cavanagh, McAlester, Okla.

FOR SALE FISHING RIGHT. The best in the State. Lake covers two thousand acres of land. Will sell exclusive right and I will look after same. Fine hunting also. Will give deed, good title. A great place for enort place for sport.
G. M. Thomas, Marianna, Fla.

SUBSTANTIAL MANUFACTURING COM-PANY wants capable man to open office and manage salesmen, \$500 to \$1500 necessary. Possibilities unlimited. Atlantic Coast Mfg. Co., McKevitt Bldg., Norfolk, Va.

FILTER SAND USERS.—We are offering for filter purposes, 98 % silica sand, effective size .45 millimeters, uniformity coefficient 1.6. Sample sent on request. EVANS SAND CO., ELLIOTT, S. C.

WE BELIEVE IN REAL ESTATE MEN.
If you can't sell what you have try what
we have and give us a chance at your property. The 48 states cannot offer what we
offer, but still it may not suit and it is your
business and my business to suit the customer. O. W. Crawford, discoverer of the
booming new Town of Schriever, La.

FOR SALE OR RENT. ST. JOSEPH, MISSOURI.

Modern Brick Building, in center of wholesale district—semi-mill construction—100.000 square feet floor space—switch track to building—low insurance rates—excellent shipping facilities. Labor conditions favorable. Large manufacturing and jobbing center. Inquire Battreall Building Company, St. Joseph, Mo.

FOR SALE nice home. 600 acre narm and hydro-electric plant with a twenty-year contract with the City of Marianna for light and power. Plant pays ten thousand dollars a year; also good fishing and hunting as there is in the State, fine sport. An ideal place for anybody to live. Six miles South of City of Marianna. Want to sell quick. Wire or write or come to G. M. Thomas, Marianna, Fla.

BUSINESS OPPORTUNITIES

I SPECIALIZE in industrial, warehouse and business sites at and adjacent to Washington, D. C.

M. B. HARLOW
Harlow Building, Colorado Building, Alexandria, Va.

Washington, D. C.

I HAVE HIGH CLASS City income properties showing 10% net or better; will consider improved going plantations, country estates and ranches as part payment; describe fully; owners only. Arthur M. Conner, 726 14th Street N. W., Washington, D. C.

MILLWRIGHT WORK WANTED

WANTED: Millwright work by day or contract; 20 years experience erecting dams, water wheels and general mill machinery. J. H. Boyd, Chester, Va.

FACTORY SITES

A SPLENDID MANUFACTURING SITE with building 275x65 ft. for lease or sale. Suitable for lumber plant or furniture factory. All advantages. Millions of feet of timber available. Address P. Q. Moore, Secretary, Chamber of Commerce, Burlington, N. C.

INDUSTRIES WANTED

SMALL FACTORY can do well at Gobles Mich., low rent for workers. Power, light, water, free site, etc. Lock Box 412, Gobles, Mich.

INMAN, S. C., wants industries, large and small. Good climate, good labor conditions, electric power, water. Will offer induce-ments to assist in location of good indus-tries. Write Secretary Chamber of Commerce.

SPECIAL INDUCEMENT offers small factories located in Van Wert, Ohio, plenty of labor. lowest tax rate: best transportation. Address Chamber of Commerce, Van Wert, Ohio.

PILOT MOUNTAIN, N. C. wants industries. Good climate and labor conditions, several hundred electric horsepower for sale 1c per KW. Hr. owned by town. Will offer inducement to assist in location of industries. Write Chamber of Commerce.

FOR MANUFACTURING SITES Investments, Homes, Investigate. GREENWOOD, S. C. Y. May.

A SPLENDID LOCATION and building 275x65 for any kind of manufacturing plant. Splendid transportation facilities, hydro-electric power. Splendid labor conditions. Millions of feet of timber. Address Chamber of Commerce, Burlington, N. C.

THE NEW TOWN OF SCHRIEVER, LA. has gas; it may have oil. The heart of Louisiana's sugar country, Schriever is 75 years old and never a lot was sold until January 4, 1924. The Schriever Industry Bulletin, free for three months, graphically gives its history. With three railroads and in a circle of thirty miles are eight county seat towns and more than 100,000 prosperous people. The Twin Bayous, the famous Terrebonne and Lafourche, are Industrial Canals Providence made. The climate, salubrious and healthful. is guaranteed. The rich plantations of which Schriever is the center are now being subdivided into cheap little farmsteads. We offer small factories that no other place in the 48 states can possibly offer. Write the Schriever Association of Industries. Schreiver, La. THE NEW TOWN OF SCHRIEVER, LA.

INDUSTRIAL PLANTS

A SOUTHERN COTTON MILL
Write to
F. C. ABBOTT & COMPANY
Charlotte, N. C.
26 years' experience in Southern Mill Stocks

In the oil country

The Oil Industry is one of the many enterprises that have realized the economies resulting in the use of a trustworthy belt for power transmission.

Here is one of six similar drives in a large gasolene compressor plant in the Southwest, all equipped with

TEST SPECIAL RVBBER BELTING

Belting satisfaction depends upon the endurance and flexibility of the cotton duck used, and the character and quality of the rubber "friction" which bonds the plies of duck. Years of experience in the selection of these factors and skill in their combining have perfected this brand of belting.

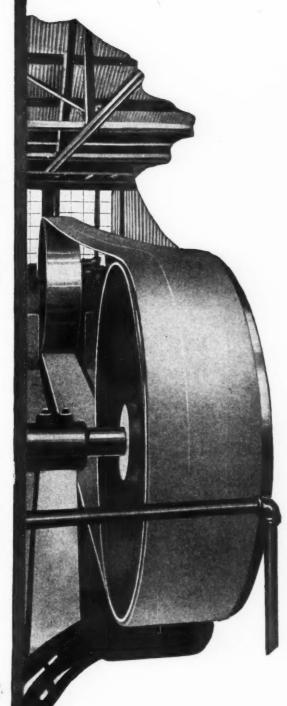
Cut your power transmission cost with Test Special Rubber Belting

NEW YORK BELTING & PACKING CO.

New York Boston Chicago Philadelphia



Pittsburgh St. Louis San Francisco



One of a battery of six Test Special Belts in the plant of Transcontinental Oil Company, Bristow, Oklahoma.